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FINANCIALTIMES

D 8523A

Zulus agree to curb use of 'cultural weapons'

Africa appears to have won an important concession from Zuln leaders on the carrying of "tribal weapons", or spears, in troubled black townships. The agreement paves the way between the government and the African National Congress. Page 18; Reversal on land claim decision, Page 6

India poli violence At least 36 people were killed after violence erupted at the start of India's week-long parliamentary elections. Page 6

Yugoslav aid threat European Commission officials warned that continued aid for Yugoslavia was threatened unless the country resolved its bitter ethnic conflicts.

Dohuk handed over US troops entered the city of Dohuk in northern Iraq to pre-pare for the return of thou-sands of Kurdish refugees still stranded on the Turkish border. Page 6

Fighting halts aid Fighting between Ethiopian government forces and rebels has halted a famine relief programme supplying up to a mil-lion drought victims, ald offi-

Peking talks hitch Talks to normalise ties between North Korea and over Tokyo's demand that Pyongyang open its nuclear sites to international inspec-

Thai heroin seized That police seized more than half a tonne of heroin near the Cambodian border in their biggest drugs haul in three years.

Bangladesh turmoli Violent storms returned to Bangladesh, killing more than 70 people and injuring 1,000, as a US task force stepped up cyclone.

Journalists 'freed' The Medellin drug cartel said it ordered the release of two kidnapped journalists to per-suade the Colombian govern-ment to stop extraditing suspected drug smuggiers. Page 4

Last-ditch air talks Soviet government and union negotiators were locked in talks in an lith-hour attempt to prevent a disruptive air traffic controllers' strike. Page 2

Computer blamed US defence officials said a computer used to trigger US Patriot missiles failed to detect an Iraqi Scud missile that exploded and killed 28 Americans in Saudi Arabia during the Gulf War.

Polish remorse President Lech Walesa, on a state visit to Israel, asked the Israeli people for forgiveness over the bitter Jewish accusa-tion of collaboration with Nazis_during the Second World

War. Page 6 Harare protest ends Hundreds of students returned to classes at Zimbabwe's only university, breaking a threeweek anti-government boycott that prompted threats to oust

Mubarak reshuffle President Mubarak of Egypt reshuffled his cabinet and appointed new defence and foreign ministers, but to some surprise there were no changes

in economic portfolios. Page 6 Rubbish piles high Polish authorities took emergency powers to call in troops and private firms to help clean the capital, Warsaw, as a strike by rubbish collectors entered its fifth day.

LTV plan to sell defence unit criticised by creditors

LTV, US steel company, announced plans to sell its announced plans to sell its
large defence and aerospace
business to help it out of bankruptcy proceedings but the
plan has run into immediate
opposition from creditors of
the division.

LTV's defence and aerospace
company makes missiles, rockets, space systems, military
vehicles and sub-assemblies
for military and commercial

for military and commercial aircraft. The company, which employs 16,100 people, is the 20th largest defence contractor in the US with sales in 1990 of about \$2bn. Page 19

NICKEL: LME nickel prices fell to session lows on general liquidation, but sporadic consumer interest prevented sub-stantial losses, dealers said. Three months traded last at 8,300 dirs a tonne, down 100 dirs from Friday's kerb close.

Commodities, Page 30 Cash metal ('000 \$ per tonne)

April 1991 May

MARKETS: In New York an early rise in bond values helped boost sentiment in the stock market, but gains were relatively modest, with the Dow Jones Industrial Average edging up 7.38 at 2.894.01 by 1.30 pm. Tekyo: share prices declined across the board as this volume accentuated selling by arbitrageurs and investing by arbitrageurs and invest ment trusts. The Nikkel average fell 178.91 to 25,523.08 on volume down 90m to 260m shares. Most European bourse re closed for Whit Monda and Toronto was closed for Victoria Day. Of those that were open, Fiat continued to weigh down the Italian bourse on renewed fears that the company would cut its 1990 divi-dend. Spain moved higher in quiet trading, but most of the excitement was restricted to the emerging markets. World

Stock Market reports, Back Page, Section II MONTEDISON, Italian chemicals, energy and agro-indus trial concern, reports consolidated after-tax profits, net of minority interests, of L556bn

(\$433m) for 1990. Page 19 EC and the Australian-led Cairns Group of agricultural exporting nations within the negotiations of the General Agreement on Tariffs and Trade appeared firmly at odds after talks in Canberra failed to break down differences over

trade liberalisation. Page 7 BOND Corporation shareholders approved a proposed debtfor-equity swap leaving Mr Alan Bond, former chairman, with less than 6 per cent of

the group's shares. Page 20. JVC. Japanese consumer electronics company, reported a 27.1 per cent drop in consoli-dated pre-tax profits for the year to March 1991 to Y26.3bn (\$190m). Page 20

OMRON, Japan's top maker of control components, reported a 2.3 per cent rise in pre-tax profit to Y21.775bn (\$200m) for the year to end March, reflecting continued growth in the Japanese economy. Page 23

THREE leading Japanese real estate companies, Mitsui Real Estate, Mitsubishi Estate and Sumitomo Realty saw strong sales growth for the year, but pre-tax profits did not kee pace under tighter financial regulations. Page 23

Soviets to lift restrictions

SEPIALS DIVISION A

on travel abroad in 1993

THE Soviet parliament yesterday approved a law allowing free travel out of the country for the first time which the US has made a condition for improving trade rela-

However, what should have been a milestone for human rights was marred by a deci-sion to postpone its implementation until 1993. After rejecting the bill three times last week, deputies finally approved it in principle by 320 votes to 37 with 32 abstentions. This means that the law, which has yet to be debated article by article, can

still be modified. The US has made free exit from the Soviet Union a pre-condition for granting the Soviet Union most favoured nation status. The White House said the law was a hopeful sign but that it was too soon to say whether it would allow the US to extend favoura-ble trade status to Moscow. "It still has another step to

Europe

than an alternative to it.

collective defence matters.

THE UN Security Council yesterday approved a plan to

exact war reparations from Iraq by establishing a compen-

sation fund to be financed by iraqi oil revenues. Mr Javier Perez de Cuellar,

the UN Secretary General, was asked to begin consultations

about setting a ceiling for the

Its governing council will

comprise all 15 members of the Security Council and work from the UN's European head-quarters in Geneva, although the day-to-day operations of the fund may be administered from other financial centres, including London Initial

including London. Initial claims on the fund could amount to as much as \$100bn.

future of Kuwait.

"The scale of the compensa Jeremy Carver, a international lawyer, said yesierday at a con-ference in London about the

"One is looking at perhaps 2m claims being made to this

compensation fund, claims of

all possible sizes from all parts of the globe."

Earlier this year there was friction following warnings by

go in their legislative process, go in their legislative process, so we'll have to wait and see whether it satisfies our concern and our conditions for MFN (most-favoured-nation status)," Mr Marlin Fitzwater, White House spokesmen, sald.

The Foreign Office welcomed the law but said it would have to control the seed of the se

to study the full details before Britain made a decision on whether to attend the scheduled human rights conference due to be held in Moscow in October.
British officials said that lib-

eralising emigration was only one of the conditions the western countries wanted to see fulfilled before they participated in the conference. The others included judicial independence, reform of Soviet criminal legislation, freedom of speech and freedom of religion. A decision by the US, Britain and other western countries on their participation will only be

doms. No date has been fixed for such a decision, but it seems likely that it will be taken later in the summer.
The passing of the legislation coincides with intensive
Soviet efforts to secure sub-

stantial Western financial assistance for genuine market The Soviet government, which originally asked for the legislation to come into effect in July 1992, says it needs time to overhaul its cumbersome travel bureaucracy, at a cost of

Rbs300m.
No doubt it is also afraid of a drain on its scarce hard currency resources. Conservative opponents of

the bill, who were instrumen-tal in postponing its implementat in postponing its implemen-tation still further, voiced fears it would trigger a "brain drain" and encourage smuggling by dreaded "speculators". The law was given prelimi-nary approval in parliament almost two years ago.

that between 500,000 and 3m people will emigrate once the law is passed.

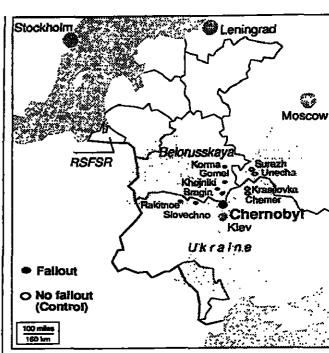
Nearly half a million people emigrated last year, mainly to Israel and West Germany.

But even if Soviet travel laws are liberalised, Soviet citizens will have to expectations will have to expectations.

zens will have to overcome tough new visa requirements by western countries, as well as long domestic waiting lists for train and aircraft tickets. Although restrictions have been eased considerably since President Mikhail Gorbachev came to power six years ago, Soviet citizens still require an exit visa and an invitation from foreign hosts, even for

short trips abroad. The new law provides for the unrestricted issue of foreign travel passports - except to people facing military service or criminal investigation.

It imposes a five-year waiting period, however, on people deemed to hold state Air traffic Talks, Page 2



Chernobyl study rejects reports of widespread illness

By David Flshiock, Science Editor, in London

from Chernobyl has rejected reports of widespread sickness in the five years since the

Soviet nuclear explosion.

It did, however, find widespread anxiety among the population about the adequacy of measures taken by the authorities as well as distrust of the Soviet government and medical and scientific communities The International Chernobyl

Project, set up by the United Nations at the invitation of the Soviet Union, involved about 200 doctors and scientists from 25 nations, and seven international organisations including the World Health Organisation. The investigations, lasting more than a year, did not examine the exclusion zone within a radius of 30km around Chernobyl itself – from which residents were moved rapidly in the wake of the explosion. Instead, it concentrated on areas up to 500km from Cher-

nobyl which were subjected to the drifting radiation cloud. Rain washed down radioactivity to contaminate large patches of ground in the area. mainly with radioactive caesium from the reactor fuel.

The study found that the
Soviet children most exposed to fallout were now generally healthy. However, there appears to be a high level of ill-health among Soviet adults,

THE FIRST international study of the effects of nuclear fallout accident, according to the

report.
The investigation found that there been no marked increase in cancer, leukamia, cataracts. or other diseases related to radiation, and there was no evidence of an increased level of birth defects, in sharp contrast to reports around the fifth anniversary of the accident late last month.

Radiation experts point out

that previous experience of accidents shows that it takes more than five years for radia-tion-related diseases to appear. Given the increase in the reporting of cancer cases in the Soviet Union over the past 10 years, it may be that the effects of Chernobyl-related incidents would be very hard

In Vienna today the UN's International Atomic Energy Agency will begin a four-day conference to examine the proj ect's medical and radiological

The study group was asked to assess the radiological consequences of the accident for the three affected Soviet republics - the Ukraine, Byelorussia, and the Soviet Federation - and to evaluate the protec tive measures undertaken by

the government.
Headed by Dr Itsuzo Shigematsu, director of the Radia-tion Effects Research Foundation at Hiroshima, the group Continued on Page 18

taken on the basis of careful study of all the components making up greater human free-Soviet authorities estimate Kohl calls for United States of By Peter Riddell, US Editor, in Washington CHANCELLOR Helmut Kohl, on his first visit to the US as head of a united Germany, yesterday called for the creation of a United States of Europe with continuing strong links to North America. Mr Kohl sought in a series of meetings and public appearances to offer reassurance that political unification and moves towards the creation of a Kuro pasn defence and security pll-lar would not weaken Atlantic ties. His comments came in the

Chancellor Helmut Kohl is greeted by State Department officials on arriving in the US

lar would not weaken lar would not weaken lar would not weaken lar would not weaken large in the context of current European Community discussions on political union and the parallal Nato strategy review.

Western European unity Nato's integrated military structure, was reaffirmed in a joint statement 10 days ago by Mr James Baker, US secretary Genscher, the German foreign minister, in the hope of narrowing differences on the

Washington that European moves should not exclude the Following criticism of the absence of German troops from the allied effort in the Gulf, the US and that Nato, rather than an exclusively European body, chancellor said he was confi-dent that German forces would should remain the focus for

UN to exact war reparations

from Baghdad's oil revenues

US officials have called for

40 to 50 per cent of Iraqi oil

revenues to be diverted to the fund, but other governments

want a lower figure and a com-promise may eventually be

reached at around 25 per cent
- slightly less than the

amount that Iraq was spending

on military imports before it invaded Kuwait in August last

Iraq has already protested that the compensation plan,

first proposed by Mrs Margaret

Thatcher when she was UK prime minister, would beggar a

But there was no public debate in the Security Council

yesterday since reparations

were part of the ceasefire terms imposed last month and

Since the embargo remains in place - and the US and

Britain have suggested they

want sanctions to stay until

accepted by Baghdad.

MARKETS

New York lunch \$1,7200

peration or more of its citi-

year. Frozen Iraqi assets not contribute to the fund.

By Michael Littlejohns in New York and Victor Mallet in London

This aim, underpinned by in future be able to serve out appeal for western support for side the Nato area under the auspices of the United Nations the Western European

> western support for Soviet President Mikhail Gorbachev. "It cannot be our objective to help bring about the dissolution of the Soviet Union", he

claimants receive compensa-

However, the Council also

warned that, if Iraq failed to

comply when all procedures were in place, the world body

intended "to retain or to take action to reimpose" sanctions.

Fourteen of the 15 members voted for the resolution, initi-ated by Britain and the US. Cuba abstained. It was the sev-

enteenth security council reso-

Based largely on a programme prepared by the secretary general under the cease-fire terms, the resolution establishes the fund to pay compensation for "any direct less demand in a large direct less demand in a large direct less demand."

loss, damage, including envi-ronmental damage and the

depletion of natural resources,

or injury to foreign govern-ments, nationals and corpora-

tions, as a result of Iraq's

unlawful invasion and occupa-tion of Kuwait."

mission, overseen by the Gov-

erning Council, will administer

A UN Compensation Com-

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lution on the Gulf crisis.

The US and Germany bave been discussing how to respond to Mr Gorbachev's

the Group of Seven leading industrial nations in London in mid-July. US and British officials are cool to the idea of Mr Gorba-chev attending the summit unless he gives a positive com-

gramme and his desire to

attend the annual summit of

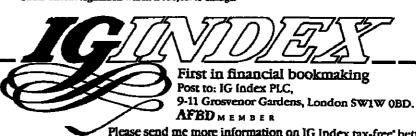
mitment on reform. Even if the Soviet leader does attend, he with 10 to 15 per cent needing medical treatment, although will not participate in the main

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CONTENTS

Anniversary to forget: Tibet after 40 years of | Tokyo hoping to begin a new Semiconductors: Sematech's role - loyal tans but mixed reviews Supplying the Japaneser A painstaking ement of production quality ... Editorial Commant: The post-16 caucus race; Fast-track or the buffers ______16 Bottom of the class How the main UK parties measure up on education Lext Brent Walker, retail sales, AB Foods, Tottenham Hotspur _____

Survey: Car of the future 23 Commercial Law 11 Gold Int. Copital Markets ... 23 Crossword ... 38 Int. Copital Markets ... 27

-- 6 relationship with Brussels EC president Jacques Delors is due in Tokyo tomorrow. Both sides want the visit to mark the start of a new relationship - one in

which the agenda will no longer be led by . trade disputes Stock Markstowerld . 31-42 32,83

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London: \$1.7190 (1.7165) SFr1.4585 Y138.15 FFr10.0775 (10.075) SFr2.5075 (2.5175) London DM1.728 (1.736) Y237.50 (237.0) £ index 91.7 (91.8) FFr5.8625 (5.87) SFr1.458 (1.467) Y138.20 (138.45) \$358.1 (356.0) \$355.35 (355.35) N SEA OIL (Argus)

\$ index 66.4 (66.3) Tokyo close: Y138.80 US lanchtime rates Fed Funds 5월% yield: 5.815% Long Bond: 98 3 yleid: 8,284%

President Saddam Hussein is overthrown or yields power — it may be some time before any

Troops make ready, Page 6

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25,523.03 (-178.91) LONDON MONEY 3-month interbents closing 11,6% (11%)

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Soviet air controllers hold last minute strike talks

By Leyla Boulton in Moscow

SOVIET authorities were last night locked in last minute negotiations to avert the country's first ever strike by pilots and air traffic controllers, who threatened to close down Soviet airspace from midnight

yesterday.
Mr Boris Panyukov, the Civil
Aviation Minister, has said the
government would bring in military air traffic controllers to keep Soviet airspace open. The government has also vowed to prosecute workers who defy a strike ban in the transport industry under a newly-created special regime for key sectors of the economy. for key sectors of the economy. By threatening strike action, the country's 17,000 air traffic controllers together with 40,000 Aeroflot pilots, have already won important concessions on their demands for bigger pensions and better working hours. Negotiations last night however centred on their

demands for a 100 per cent pay increase - after the controllers and pilots dropped an initial demand for a 200 per cent pay rise. International airline officials

were on stand-by yesterday to cancel all flights to and from the Soviet Union, as well those between Europe and the Far East which cross Soviet airspace. The pilots plan a 24-hour warning stoppage but the air traffic controllers union have vowed to continue industrial action until their demands are

In a tacit admission that disruption would be inevitable even if military controllers are brought in, Mr Panyukov has said the Soviet Union would lose Rbs25m and \$2m in hard currency for every day of dis-

the first test of the govern-ment's resolve to take tough

action to ensure the smooth functioning of key economic sectors since President Mikhail Gorbachev signed a decree establishing the special regime

■ Moscow's radical mayor, Mr Gavrill Popov, falled yesterday to win a vote of confidence in his leadership and said he might resist his supporters' demands to run in free elections scheduled next month, Reuter adds from Moscow. In an unruly and chaotic ses-

sion of the Moscow City Coun-cil, a majority of deputies refused to vote for Mr Popov as a candidate in elections planned for June 12 – the first democratic mayoral poll in

Soviet history.
About 100 of some 450 deputies left the debating chamber to avoid having to vote. Of those who remained, only 189 cast their ballots in favour of Mr Popov's candidature.

Brussels warns Yugoslavia over conditions for aid

By David Gardner in Brussels and Laura Silber in Beigrade

CONTINUED European Community aid and credit for Yugoslavia will be made conditional on the country remaining united, resolving its ethnic conflicts, and furthering economic and political reform, Furmous Commission officials.

said yesterday. The officials also made clear that Yugoslavia's hopes of closer relations with the Community hinged on meeting

Mr Jacques Santer, prime minister of Luxembourg, which currently holds the EC presidency, and Mr Jacques Delors, president of the Commission, are to hold talks with the federal and republican governments in Yugoslavia before the end of this month, a Commission spokesman confirmed.
Officials said their message
would be very clear. "If [Yugoslavia] really wants a closer
relationship with the Commu-

Spanish fuel

strike causes

toppage since last week when

railway and telecom employees

disruption

However, official results

from a referendum on Sunday in the western republic of Croatia, confirmed that voters had overwhelmingly opted to leave the Yugoslav federation.

Yugoslavia is seeking an association agreement with the

association agreement with the EC like those Brussels is currently negotiating with Hungary, Poland and Czechoslovakia. These are free trade agreements designed to lead eventually to full membership of an expanded Community.

Brussels has just finished negotiating a new financial negotiating a new financial package with Yugoslavia. Spread over five years, it will

give the country access to Ecu730m (\$908m) in soft loans

bank, and will be earmarked for roads and railway infra-structure linking central Europe to Greece. The agree-ment has been held up by delays in reaching a transit agreement for EC lorries, rather than the instability inside Yugoslavia.
The conditions for aid set

from the European Investment Bank and the EC development

The conntions for aid set down by the EC coincided with a statement by Washington that it had not yet "reached a final decision" to suspend aid worth \$5m to Yugosiavia, an official said. Under the the Nickles amendment, passed by Congress last autumn, aid to Yugoslavia was subject to a six-month review which expired on May 5. The amend-ment linked US aid to human rights and moves towards democracy which the State

Communists gain ground in Cyprus parliament

By Kerin Hope in Nicosia

BOTH the Greek Cypriot Communist Party, Akel, and the right-wing Democratic Rally increased their strength in the 56-member Cyprus par-liament, according to final returns from Sunday's general MORE THAN 4,000 Spanish fuel distribution workers began a three-day strike yester-day, disrupting private trans-port and forcing the state air-tine, Iberia, to cancel flights as election.

more pay, Reuter reports from Madrid. The result reinforces the standing of President George Vassilion, an independent who enger queues built Long passenger queues built up at Madrid's Barajas airport as Iberia cancelled 179 flights, is backed by Akel but also has good relations with Mr Glaskos Clerides, the Democratic Rally including 91 within Europe, causing delays of up to two hours on flights still running. About 22,000 Iberia ground staff stayed away from work yesterday in their third 24-hour

leader, particularly on handling the Cyprus problem.

Akel increased its share of the vote to 30.6 per cent and won 18 seats, up from 15 seats in the previous poll in 1985.

Akel's policy of keeping its

Communist label but running new candidates with a moderate left-wing background proved more successful than expected, analysts said. Democratic Rally retained its

leading position in the House, capturing 35.8 per cent of the vote and 20 seats, a one-seat gain. The biggest upset was for the Democratic Party of former President Spyros Kyprianou, which finished with 19.5 per cent of the vote and 11 seats, a loss of fire cents. loss of five seats.

Mr Kyprianou announced

that he would not take up his parliamentary seat. There is speculation that he may soon be challenged for the party

OECD REPORT

E Europe 'must look to service industries'

By Anthony Robinson, East Europe Editor

THE development of east Europe's hitherto primitive service industries is the key to the transformation and growth of the region's obsolescent, production-based economies, according to the Organisation for Economic Co-operation and Development,

It also provides the best chance for expanded international trade and big opportunitional trace and ing opportunities for western financial and service companies to export products and know-how, the OECD says.

In a report entitled "Services in central and eastern European countries (CEEC's)" the Paris beard #the track to the countries of the

pean countries (CEEC's)" the Paris-based think-tank says the former ideological prejudice against services as "non-pro-ductive" has contributed to low overall economic efficiency and a relatively low share of services in GDP.

High on the list of CEEC needs to transform their sermo-

needs to transform their economies is technical assistance in re-training central bank personnel to cope with new super-visory and prudential regula-tions and the creation of "independent, strong, efficient and competitive" commercial banking networks. The report notes that the development of commercial banks, virtually from zero, requires people skilled in risk assessment and balance sheet analysis, and will need western technical assistance and heavy invest-ment in electronic banking and communication equipment.

Telecommunications is among the most backward service industries, with telephones per 1,000 people ranging from 118 in Poland and the Soviet Union to 230 in Czechoslovakia and Bulgaria, compared with almost 900 in the most advanced west European

It singles out the develop-It singles out the development of capital markets, pension funds and different types of insurance products and building societies as areas with large potential for development and job creation.

Poland and Hungary have made the greatest progress indrawing up legislation and creating private banking and other institutions, "The next tasks of financial reform are the development of financial

the development of financial investors/insurance companies, pension funds and savings associations, an integrated money market with a unified interest rate structure and an

quity market extended to ouseholds," the report says. While acknowledging the with a delack of experience in international banking, it underlines the "potential of well-educated people who, properly retrained and motivated, represent valuable entrepreneurship". It warns, however, that "liberalisation is often connected with high or hyper-inflation and persistent market disequilibria inherited from the old system."



President François Mitterrand keeping his balance yesterday during his annual hike to the top of the Solutre Rock in Burgundy. Mr Mitterrand outflanked demonstrators who planned to waylay him on his annual Whitsum "pilgrimage". Mr Mitterrand has climbed the rock — an impressive escarpment from one side but a gentle stroll from the other — every year since 1946 in the company of selected friends and

relations. This year he switched the date of his climb to Whit Monday, complaining that the crowds of journalists, admirers and demonstrators had previously spoilt his family outing. The date change foiled the 150 Algerian war veterans who had picked Sunday for their demonstration. Although an ecologist demonstration picked the right day, the protesters arrived an hour after the early-rising president.

Walesa's old comrades lead assault on financial stringency

By Christopher Bobinski in Warsaw

THE Polish government is facing an increasingly uphill struggle to maintain its com-mitment to fiscal and credit stringency and tight wage

controls.

Not only has the Solidarity trade union, which still sees the government as its own, called a day of protest tomorrow against a background of public dismay at rising unem-ployment and mounting reces-sion, but the government is also expected to come under strong criticism at a special economic debate in parliament

on Thursday.
Solidarity's planned work stoppages and mass meetings mark a worsening of relations between the union, under its recently appointed leader Mr dent Lech Walesa.

Mr Walesa, the Solidarity movement's historic leader for nearly a decade, views the union's move as a personal affront and has rallied behind the government led by Mr Jan Krzysztof Bielecki, the prime minister he appointed at the beginning of the year.
This support enabled Mr Bie-lecki and Mr Leszek Balcerowicz, the deputy prime minister and finance minister, to

Polish small investors Polish small investors yesterday moved swiftly to buy 900,000 shares priced at 21 50,000 (£3) each in the Swarzedz furniture factory, this year's first privatisation through a public share offering, writes Christopher Bobinsted on a first came conducted on a first come first served basis. The entire issue of 2.5m shares is worth Zl 125bn. Polish brewery, Page 29

emerge strengthened from last

weekend's meeting of senior economists in Warsaw. The meeting had originally been planned to force the govern-ment to shift towards more reflationary policies in the expected this autumn. A 15 per cent devaluation on the eve of the meeting, and a promise to speed up privatisation of state companies, helped to deflect criticism that the government was not responding to changed conditions.
But they are unlikely to be

enough to satisfy public opinion. The latest opinion poll shows that the electorate is swinging towards despair.
Wage controls which limit

ros says. But the company has suffered from the insolvency of

its important Soviet customers:

"Every week its value is

Moreover, state property was never organised by the commu-

nists with the convenience of privatisation in mind. It is not

simply a question of a single, unconstrained authority sell-

60 per cent of inflation are the most immediate target of con-cern. But fears that large sectors of industry are on the brink of closure are depressing the public mood. The prospect of such closures poses the greatest threat to the tight monetary policies agreed with the IMF as a condition for the recent \$1.8bn structural adjustment loan. As the pressure mounts, the government will be tempted to tinker with wage controls. It will face the hard-est test when pressed to hail out state-owned industries.

Unemployment is expected to rise from nearly 1.4m to 2m by the end of the year and spread from the small towns to the more volatile cities. day by 20,000 copper miners in Lubin, south-west Poland, gave the government some relief. The one-week strike was the

most serious stoppage this year, with miners demanding a year, with miners demaning a 100 per cent pay rise. But they agreed to return to work after more money was allocated to social funds, to get round wage restraint, and were told they could seek higher wages once privatisation procedures begin

De Benedetti tells court he had no power at bank

ITALIAN, businessman My-Carlo De Benedetti yesterlay told a Milan criminal court be lacked power during his two months as vice chairman of Banco Ambrosiano and he sig not make a profit on the sale of his stake in the bank, Renter reports from Milan.

Mr De Benedetti, chairman of computer maker Olivetti, is among 35 people accused of fraudulent bankrupciy in canection with the collapse u nection with the colleges of Banco Ambrostano in 1982 with debts of more than \$15m. Mr De Benedetti was vice chairman of the bank from November 1981 be January 1982, when he sold his two percent in the bank and resigned. T was never able to obtain information (about the bank's activities). I was not placed in a condition to carry out my duties. I did not have any duties. I did not have any

duties. I did not have any power," Mr De Benedetti sale in his first appearance before the court.

He said he tried unsuccesfully to find out about the
operations of the bank headed
by Mr Roberto Calvi, which
the media dubbed "God's

Roberts heaves of Mr Calvil. Banker" because of Mr Calvi's links with the Vatican Mr Calvi was found dead hanging from a bridge over the River Thames in London in June 1982. Investigators have be divided over whether he co

dered.

Mr De Benedetti told the court he sold his shares in the bank in January 1982 for about 154bn (\$42m) because it was clear he would never entries any real power in the bank. "I did not gain one lira,"

The Banco Ambrosiano trial, which began a year ago, is expected to last for several more months.

EBRD director takes up his post

THE US executive director for the European Bank for Recon-struction and Development has taken up his position, fol-lowing confirmation of his appointment by the US Senate, writes Stephen Fidler. He is hir William Currah, who from 1979 to 1988 was chairman of First Chicago

chairman of First Chicago Limited in London, the invest-Innited in London, the invest-ment banking arm of First National Bank of Chicago. First Chicago was known dur-ing the period for its close links with east Europe. After leaving First Chicago, Mr Cur-ran acted as a private finan-cial consultant.

The appointment by the US of a banker for the 24-strong board reflects the strong prite-sector orientation that the US has been pressing the bank to take.

Poland, Hungary hope for barter

The collapse of trade within the Soviet-led Comecon bloc is faming hopes in Poland and Hungary that the Soviet Union will allow barter deals and introduce a clearing system to help overcome a crippling shortage of cash Penter.

help overcome a crippling shortage of cash, Reuter reports from Budapest.

Both measures could help spur trade devastated by the moribund group's switch to hard currency accounting and world prices this year, officials from the two countries said.

"We have already residued."

ROU

from the two countries said.

"We have already received information that a draft proposal has been submitted to the Soviet government that would plan to lift the ban (on barter)," said Hungarian trade official Mr Lajos Berenyi.

Re also saggested the countries adopt a clearing system that would use the money Hungary pays for Soviet Hungary pays for Soviet imports to help finance Hun-garian exports.

This temporary arrangement could help shore up bilateral trade until the countries get used to the new trade

Roth Poland and Hungary have posted large trade surpluses with the Soviet Union so far this year as they continue to buy Soviet energy supplies but find many Soviet customers do not have the transact to pay for innertic.

money to pay for imports.

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Hungary's sell-off hits hard times

Privatisation may come too late for some, writes Nicholas Denton eon Richter, Hungary's largest pharmaceuticals company. "Last year we thought Gedeon Richter and companies like that were flagships," Mr Bok-T IS only as the privatisawas launched last September,

covered by Hungary's retail privatisation

plan, fewer than a hundred have been sold

tion of east Europe's econ-omies has moved from the realm of theory to practice that the daunting complexity of the task has become clear.

Hungary, which has gone farthest in dismantling state control of industry, is therefore finding out first that the transformation is easier said than done. Transactions have to pass through the confusing pass through the confusing legal, financial and administrative tangle left by 40 years of communist state control.

One temptation is to cut straight through the knot, by distributing property for free, and without discrimination, to the entire population or to for-mer owners. But Hungary, more than Poland and Czechoslovakia, has opted for the deliberate way: genuinely selling state property rather than just spreading it around.

The decision has its costs. The process is far more com-plicated than we ever thought," says Mr Karoly Szabo, deputy managing direc-tor of the State Property Agency (SPA); the privatisa-tion agency, which bears the brunt of people's impatience.

"People think that privatisation is just a matter of making an advert: this is for sale," complains Mr Lajos Bokros, the president of the Budapest Stock Exchange and board member of the SPA. In fact, every state company needs extensive legal, financial and organisational restructuring to prepare it for sale, Mr Bokros says. "Very few people know what is involved."

Learning has been painful Hungary's flagship First Privatisation Programme (FPP), under which the SPA is selling off 20 attractive state companies, is running well behind schedule. When the package was launched last September, Mr Lajos Csepi, managing director of the SPA, expected the process to be complete by the middle of this year. Instead, that is when sales are now scheduled to begin. Pan-nonplast, a Hungarian plastics company, will be the first to go public pert month. public next month.

First, the SPA was inun-

dated by interest from western investment banks and other consultants after it made an open invitation to tender for managing the sales. On top of

Out of the 10,000 shops and restaurants

lost, according to one agency adviser, by underestimating the time needed to audit company finances. The agency only approached the large international accoun-tancy firms based in Budapest at the beginning of this year. By then the annual financial

that, several months have been

Overstretched accountants could not take on much of the work. Once they did, audits to prepare a company for sale have been taking as long as six

reports season was already

Mr Bokros says the neglect of auditing in the past "was a bad mistake". It has been compounded by the government's reluctance to give the SPA sufficient funding: "Without privatising you have no income; without income you can't get the advisers and privatise."

A company's value is all the more difficult to calculate in economic circumstances which are shifting as fast as those of east Europe. Advisers are selling moving targets. Take Ged-

ing off state enterprises, as in the west. Rather, the govern-ment, the SPA, local authorities, enterprise councils and state company managers, have varied and conflicting interests, all of which have to be

For example, Danubius Hotels is one of the largest and soundest of the 20 companies in the First Privatisation Programme. It should be among the easiest to sell. But all the company's 18 first-class hotels lie on land owned by the local authority, which is entitled to shares in the new private sector entity. That requires 18 separate and difficult negotiations. arate

Managing relations between state company managers, who have their own priorities and advisers has also proved more awkward than expected. "There have been serious conflicts sometimes," says Mr Szabo.

Even within the SPA, there is a huge gap in understanding between westerners and Hungarians, which is only being

to one western adviser. Nor are government privatisation pro-grammes other than the FPP grammes other than the FPP going any more smoothly. Out of 10,000 shops and restaurants covered by Hungary's retail privatisation plan, fewer than a hundred have been sold, a full four months after the first sales. In Kobanya, a suburb of Budapest, the local state grocery company recently managed to get rid of only one of the eight shops it put up for auction.

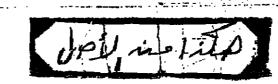
Much of the blame attaches to the confusion over land regto the confusion over land registration, over rules for auctions and for land valuation.

"This is a jungle, a real estate jungle," says Mr Erno Racz, an SPA director. He mentions a shop on Budapest's main shopping street whose ownership papers went back no further than five years. The heation of than five years. The location of another one, by Lake Balaton, was registered as being beneath its waters.

Besides these absurdities. officials and valuators also misjudged the market and set prices too high for what were often only rental rights. "This privatisation is toddling in children's shoes," says Mr Janos Simon, privatisation manager of a Budapest restau-rant chain, referring to the catalogue of errors. Mr Simon has matters in

perspective, for Hungarian pri-vatisation is suffering from lit-

tle more than teething trouble. Officials do not expect to repeat their mistakes.
The SPA claims to have partially privatised over 200 of Hungary's 2,000 state companies. "It is the speediest privatisation in history," says Mr Bokros. The question is whether that is enough. For many companies, privatisation will come too late for survival



at bank Mexico plunges into \$639m trade deficit

By Damian Fraser in Mexico City

MEXICO'S trade position expedeteriorated sharply to a \$639m oil (\$369m) deficit in this year's Meritrst quarter: excluding revenues from maguiladora (or inbond) industries the deficit was per \$1.60m.

Although capital flows into the country can sustain a deficit of this size, the figures represent a considerable setback by and increase fears that the a

\$1.6bm.
Although capital flows into the country can sustain a deficit of this size, the figures represent a considerable setback and increase fears that the economy is over-heating.

In 1990 Mexico ran a trade

surplus of \$630m or, excluding maquiladora, a deficit of \$3.03bn. This in turn was a substantial deterioration on 1989, when Mexico ran a surplus of \$2.40n.
In the first quarter of this

plus of \$2.4bn.

In the first quarter of this year imports grew 37 per cent against the year-earlier period. There was no noticeable difference in the growth rate in imports of capital goods (up to the provided of the consumer goods). imports of capital goods (up imports of capital goods (up imports of capital goods (up imports of capital goods (in imports of capit imports of sugar, mean, petrol products.

Over the same period non-oil years.

Menem backtracks on

PRESIDENT Carlos Menem of

opment scheme suspended last

impoverished west of Argen-tina that he would sign a

decree allowing companies locating in poor regions to claim value added tax rebates

The development scheme,

The scheme was frozen last

ernment fought to stabilise the

Although inflation has sub-

struggling to control its

Aer Lingus #

companies in the new Europe?

Charles Haughey, Prime Minister

Bertie Ahern, Minister for Labour

The distinguished panel of speakers include:

Desmond O'Malley, Minister for Industry and Con Padraig Flynn, Minister for the Environment

Maurice Doyle, Governor, Central Bank of Ireland

Seamus Brennan, Minister for Tourism, Transport & Cor

Albert Reynolds, Minister for Finance

EBRD director Argentina has unexpectedly armounced plans to revive a scandal-ridden regional development scheme armounced plans to revive a scandal-ridden regional development scheme

Mr Menem said during a weekend visit to his home province of La Rioja in the improverished west of Argen-

which cost an estimated \$800m (£460m) a year in lost tax revenues, became a notorious source of corruption as businessmen and politicizes falsi-

fied documents to win tax breaks without moving their factories from the industria-

on their purchases.

regional aid scheme

exports grew 7.3 per cent and oil exports 2.4 per cent. Mexico's Ministry of Budget and Planning said the export growth was boosted by strong performances in the car, chemicals and computer industries. However, the growth in car exports, and manufacturing

exports, and manufacturing exports of which it forms the

biggest part, was mainly due to a substantial contraction in the

first quarter of 1990 following a strike at Ford.

of the economic consultancy Ecanal says Mexico will see

worse figures for the third and fourth quarters of this year as

the effect of the US recession on Mexican exports becomes more apparent. He believes the trade deficit for 1991 is likely to

reach \$3bn-\$4bn, or \$7bn-\$8bn

excluding magniladora.

This would imply a current account deficit of \$10bn.\$13bn, more than double 1990's outcome of \$5.2bn. This year the government redefined the

value of worker remittances,

thereby reducing 1990's deficit
- and subsequent ones - by
\$2bn compared to previous
years.

Mr Domingo Cavallo, economy minister, must produce a

\$800m budget surplus this month and has refused pay

rises to pensioners, teachers, health service workers and the

officials could not explain why the president chose to re-establish the scheme.

An Economy Ministry offi-cial said: "We know Menem has these ideas, but he has not set a date for signing the

decree, which is important."

Commentators suggest the government wants to ease pro-

vincial finances in the run-up to crucial mid-term elections in

epoper. In many provinces the public

sector is by far the largest employer and patronage is a formidable political tool.

• Mr Raul Alfonsin, former

president and leader of the

opposition Radical party, suf-fered a reverse on Sunday in

primary elections in the cities of Buenos Aires and Córdoba, when moderate opposition can-

Roundtable with the

Government of Ireland

JUNE 17-19 1991, HOTEL CONRAD, DUBLIN Since the late 1980s, Ireland has witnessed a dramatic turnaround in its econd performance, with growth well above the EC average. Inflation is amongst the lowest in Europe, industrial peace and wage stability have been achieved; considerable progress has been made in tackling Ireland's large national debt; and a high level of foreign investment has

Although the Programme for Economic and Social Progress in the 1990s has just been signed. will its objectives be met in the face of the challenges posed by Ireland's full integration into the EC market? What will be the impact of the CAP reform and GATT negotiations on Ireland's agricultural sector and the wider Irish economy? How will the country cope with the

problem of unemployment? Will Ireland remain an attractive investment location for foreign

To examine these issues and many others, we have arranged an occasion for business to meet government. The Roundtable will offer senior executives the opportunity to talk to Ireland's

key decision-makers on an open and informal basis and hear fro

is on Indirect tax harmonisation? How will the government tackle the endemic

armed forces.

Mr Rogelio Ramirez de la O

AN inexpected challenge to the US's international commit-Foreign Affairs magazine.

The nation, he argues, needs "to start selectively disengaging abroad to save resources and seize the unparalleled

armed forces from overseas and cut back drastically on foreign aid.

"There is no longer a per-suasive threat that requires keeping more than 500,000 ground, air and naval forces in

lippines?"
The impact of these remarks is all the greater since they come from a commentator, a magazine and a sponsoring body (the Council on Foreign Relations) which have been among the main upholders of the post-war internationalist and Atlanticist tradition of US

foreign policymaking.
The article reflects the current debate not only about the US role in the world after the Cold War and in the light of the Gulf crisis, but also about

Gulf War as more of a stimu-lant to American morale than a guide to the future. "Taking on new commitments in the Middle East and the Persian Gulf while maintaining most of the old ones in Europe and fied in face of a disastrous domestic agenda: crime, drugs, education, urban crisis, federal budget deficits and a constant squeeze on the middle class, the backbone of our democracy."

rights in the country.

didates defeated his candidates by wide margins. The defeat could foreshado further setbacks in provincial primaries to be held later this

Policy guru challenges **US** foreign commitments

By Peter Riddell in Washington

ments has come from Mr Wil-itam Hyland, one of the high priests of the American policy establishment and editor of

In an article in the New York Times, Mr Hyland argues that the US should start disen-gaging from abroad and "des-parately" needs to take a psy-chological turn inward.

The nation, he argues needs

opportunity to put our house in order. We should avoid new entanglements in the Middle East, withdraw the bulk of our

Europe or the Far East. Why should Americans pay to defend rich European allies, or spend \$800m a year to rent naval and air bases in the Phi-

the relative balance between domestic and foreign policy. Mr Hyland describes the

Bush urges free Cuban elections

PRESIDENT George Bush called yesterday for free elec-tions in Cuba and met promidence, AP reports from Washington. Mr Bush also tro, Cuban president, free political prisoners and allow the UN to investigate human

US relations with Cuba could improve under specific conditions, Mr Bush said in a

Collor goes 'soft' on Brazilian business

His new economy minister shows willingness to negotiate, writes Christina Lamb

HE abrupt departure of Ms Zelia Cardoso de Mello from the helm of the world's eighth largest economy has shown Brazil's business community in its true opportunistic colours.

Led by São Paulo's industrialists, businessmen have been quick to exploit the "more flex-ible team" which they perceive has taken over from Brazil's first female finance minister and the young academics who surrounded her.

Despite a continued price freeze, the business community has blatantly raised prices in the past 10 days since Ms Cardoso's surprise departure. They have also called for a return to the high-interest short-term "overnight" financial market abolished by Ms Cardoso. Interest rates shot up to 45 per cent a month. In another indication of things to come, senators from Brazil's north-east, in the committee to approve the new central bank governor, threat-ened to block the nomination unless the liquidation of their bankrupt state banks was suspended.

Such actions go a long way to explain why businessmen have momentarily forgotten the gloom of a deep recession to greet the appointment of her successor, Mr Marcilio Marques Moreira, a former

Inheriting an almost empty ministry (50 people having left), with loudspeakers outside announcing a general strike for May 22, and forced to send police into supermarkets to enforce the price freeze, Mr Moreira may have been won-dering why he left the plush embassy in Washington to take the job of Brazil's sixth economy minister in six years. However, President Fernando Collor de Mello's motives for appointing bim have

become increasingly clear. Escaping the chaos in Brasilia



Moreira: inherited almost empty ministry

Cardoso: abolished 'overnight' market

for an official visit to Spain, President Collor took time out from an afternoon jog to tell journalists that the govern-ment's new style was "soft" – using the English word. "Moreira's appointment is a

white flag to the establish-ment," says Mr Walder de Goes, a political scientist at Brasilia University. "Collor has discovered that the anti-élite rhetoric so effective for win-ning elections, in which the poor are the majority, is com-pletely unsuited for running an economy in which the main actors are the élite."
The isolation of the Cardoso

team - caricatured as debat-ing abstract theory on what has become known as the "fantasy island of Brasilia" - could be sustained only if the government still had popular support or its economic poli-

But they had neither. During the past year the president's popularity has dropped from 80 per cent in favour to 51 per cent against. The economy,

Mr Moreira heads an older, more streetwise team, mostly members of former President José Sarney's government. Mr Roberto Macedo, the new economic policy chief, was 37-year-old Ms Cardoso's teacher. But it is more than just a gen-eration gap. The Moreira team is already showing a new will-

meanwhile, shrank 4.6 per

ingness to negotiate.
The task is hardly easy. though Mr Antonio Kandir, the former chief economic policy maker, claims: "We turned the economy round from chaos to a manageable state." There was clear regret in Mr Kandir's voice as, seated in his Brasilia

for President Collor's bold stabilisation programme were conceived in March 1990, he watched the furniture being

taken away. "We brought inflation down from 150,000 per cent to 350 per cent, turned a projected public deficit of 9 per cent to a sur-plus, increased reserves from \$5bn to \$8bn, ended the linancial circus and debt morato-

rium," he says.
But the current situation of 7 per cent monthly inflation can be quickly undone once the price freeze is lifted and repressed inflation floods back (most industries claim their prices to be 35 per cent below what they in fact are) as well as by the return of \$27bn in cruzados seized in an assets

President Collor compared the situation to "winning a football match with five goals but letting in two". Escaping from the freeze and returning to growth without inflation is the biggest challenge for the new minister in a government which has already spent its best bullets. There is another problem

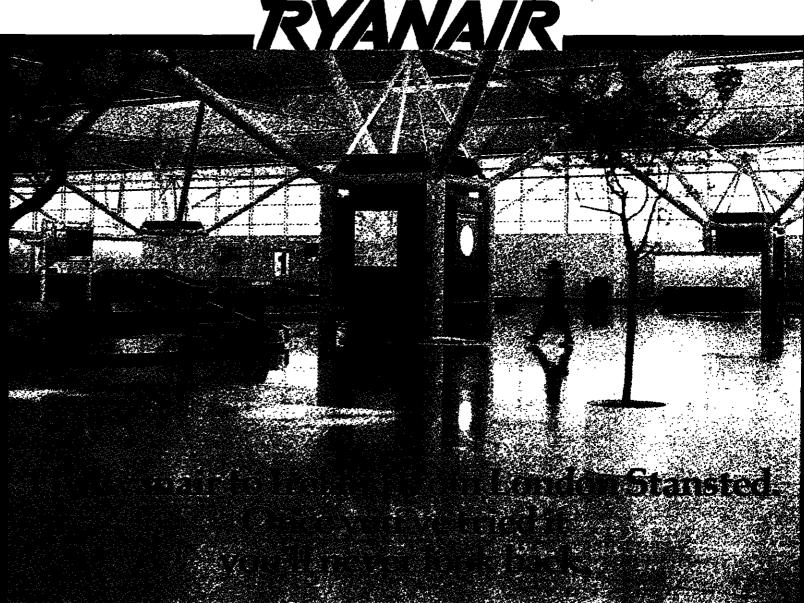
Ms Cardoso's demise revealed the power of President Collor's kitchen cabinet - the friends and relations from his home state of Alagoas who surround the presidency. They played a powerful back-stage role in Ms Cardoso's removal, the final spark being a public row with Mr Egberto Baptista, the regional development secretary and close friend of President Collor, who Ms Cardoso alleged had passed a decree to benefit his brother.

A new word - "alagoar" -has been invented in the press as a synonym for corruption and last month the construction builders' association pub-licly accused the government of demanding 30 per cent kick-backs. Some of Ms Cardoso's colleagues hinted that her real reason for resigning was the president's refusal to clamp down on his friends' alleged corruption.

Not only must the new econ-omy minister resist these pressures but the chances of secur-ing a much-discussed social pact seem minimal, with business only interested in prices, workers in wages and Congress (basically a collection of vested interests) pushing to block privatisation and state cuts which

slash at their support bases. Mr Moreira insists the austerity policy will not change, a view echoed by Mr Baptista who stresses: "It was Collor's plan not Zelia's."

Mr Moreira's great advan-tage is widespread confidence in him. His challenge will be to use this to persuade the Brazilians they must make sacrifices



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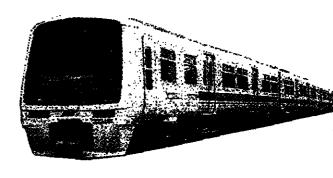
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Cordoba and Santa Fe. year under emergency legislation enacted as Argentina recovered from its second bout

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AMERICAN NEWS

Guyana's policy change draws foreign investors

Canute James looks at a government divestment programme in key sectors of the economy

Several foreign companies have reacted to a dramatic shift in economic policy by the Guyana government, by grabbing at the opportunity to invest in sectors which the texts had sectors which the state had decreed should not be in pri-

vate hands a few years ago.

The decision of Booker plc of the UK and Reynolds Metals of the US to invest in the sugar and bauxite industries, underlines the about-turn which the government of this South American republic has made in its policy towards foreign com-

Ironically, neither company is new to Guyana. Their operations, and those of several other foreign firms, were nationalised by the government in the 1970s. Both, however, are among several firms buying into state enterprises being divested by a govern-ment which, for almost two decades, kept foreign compa-nies out and controlled all sectors of the economy.

The change in the govern-ment's attitude has been brought about by a need to earn hard currency and to comply with agreements with multilateral financial institutions which have suggested the divestment of loss-making

The divestment, according to government officials in the English-speaking republic of 900,000 people, can earn the state about 50m.

Mr Desmond Hoyte, the president of Guyana, pointed towards the change in economic policy a year ago when he said that unprofitable state enterprises could not continue to be a drain on the economy, and if not divested, would have to "go to the wall". The new policy also invites

foreign companies to partici-pate in the sugar, bauxite and gold mining sectors - the pil-lars of the economy.

The invitation to the foreign companies is contained in a document which indicates the scale of the shift in government policy. "It is no part of government's policy to nation-alise property," the document says. "The objective circum-stances which led to nationalisations during the 1970s no lon-

German insurance

Broker

Germany: Berlin - Hamburg -secontly in Education German country and has 20 employees.

The yearly income is about 2.5 million

en marks. The clients are high

Booker plc and the Guyana government have concluded an agreement for the company to take over the management of the state-run sugar industry, which is expected to result in new investments of about \$30m

in the industry. Booker plans to convert Guyana's debt to the company of about \$7.5m (representing remaining payments for nationalised assets) into equity, and then to raise just over \$20m for rehabilitation of

in the bauxite mining industry, Reynolds of the US and Alcan of Canada are also returning to the country which took over their property. Reyn-olds is involved in a new min-

The change in the government's attitude has been brought about by a need to earn hard currency and as a result of suggestions from multilateral financial institutions that loss-making companies be divested

ing venture, while Alcan is discussing assistance in rehabilitating mines and other production facilities which it once owned.

Another company which has accepted the government's invitation is Atlantic TeleNeinvisition is Atlantic Telene-twork, a US firm based in the US Virgin Islands, which has bought 80 per cent of the state-owned Guyana Telecommuni-cations Corporation for \$16.5m. The company has assumed all the Habilities of the local utility, including \$10.5m to Northern Telecom which has

Northern Telecom which has been upgrading the country's telephone system. While the government has retained 20 per cent of the company, renamed Guyana Telephone and Telegraph, Atlantic Tele-Network will spend about \$30m over the next five years in improving the country's telecommunications.

Government officials in Georgetown, the capital, say they hope a similar agreement can be reached with another US company, Leucadia

ger exist. The era of nationalis-ation is therefore to be consid-ered at an end."

Lake City, Utah, which is inter-ested in purchasing a 60 per cent stake in the local electricity firm. The Guyana Electricity Corporation has suffered from inadequate generating capacity and blackouts in the country have been long and

> The opening of the gold mining sector to foreign companies has led two, Golden Star Resources and Cambior, both of Canada, to investments of \$125m to develop what is likely to be one of the largest gold mines in the Americas.

Two smaller state companies have already been bought. Guyana Timbers has been taken over by Colonial Life Insurance of neighbouring Trinidad and Tobago, and Guy-ana Fisheries has been sold to a joint venture of Japanese and

Government spokesmen-say several foreign airiines, which they declined to name, are soon to start negotiations for soon to start negotiations for buying into the state-owned Guyana Airways Corporation. The officials-say although the company has a fleet of one jettiner, it is likely to attract investors because it has route rights to several major cities in South America.

Local businessmen say there is little doubt that the Guyana government has undergone a fundamental conversion in its economic policy, but political change in Guyana is likely to affect the attitudes of prospective investors.

A general election is due later this year. The opposition leader, Dr Cheddi Jagan, an avowed Marxist, has been critical of the divestment of state-enterprises, saying it repre-sented "ideological retreat" by President Hoyte's administra-tion, and would lead to busi-nessmen plundering the coun-

Dr Jagan, however, is not expected by local business to reverse the divestment programme if he takes office. "It is clear to the opposition as it has become clear to the government that that state government that state control cannot work," said one banker. "Selling off state property is no lon-ger a party political issue. It is an irreversible fact of Guyana's

Colombian drug cartel to free two journalists

THE Medellin drug cartel announced it has ordered the release of two kidnapped journalists to persuade the government to end extradition of suspected traffickers, AP reports from Bogota. The cartel said it ordered Mr

Francisco Santos and Ma Maruja Pachon freed. Mr Santos, the editor of Col-Mr Santos, the editor of Colombia's largest-selling newspaper, El Tiempo, was abducted eight months ago. He also belongs to one of Colombia's most influential familian. Ms Pachon, a former television producer who is now the director of the Colombian Film Institute, was kidnapped on Nov 9. She is also the sister-in-law of Mr Luts Carlos

ter-in-law of Mr Luis Carlos Galan, a leading presidential candidate murdered by drug raffickers in August 1989.
Neither Mr Santos nor Ms
Pachon had appeared by late
Sunday. However, it often
takes several hours for orders

to be carried out in Colombia's underground drug network. Mr Santos and Ms Pachon were among nine journalists kidnapped by drug traffickers since last year. Five have been released. Magazine publisher Diana Turbay was killed dur-

ing a failed rescae mission.

In their statement, the cartel said it was releasing Mr Santos and Ms Pachon "to erase any doubt about our 4 pressure over the national continuous constitutional essentials," which is stitutional assembly," which is deciding if future extraditions should be allowed to the United States, where many Colombians are indicted on

drug charges.

The assembly is expected to vote on the matter this week. President Cesar Gaviria effectively cancelled the extradition policy in the first weeks of his administration last year.The president offered to prohibit extraditions and reduce prison terms of traf-fickers if they surrendered to authorities. Three brothers who helped run the Medellin cartel with fugitive Pablo Escobar - Jorge Luis, Juan David and Fabio Ochoa - ac-cepted the president's offer and surrendered.

Since 1984, Colombia has extradited to the United States 46 people accused of drug traf-ficking.

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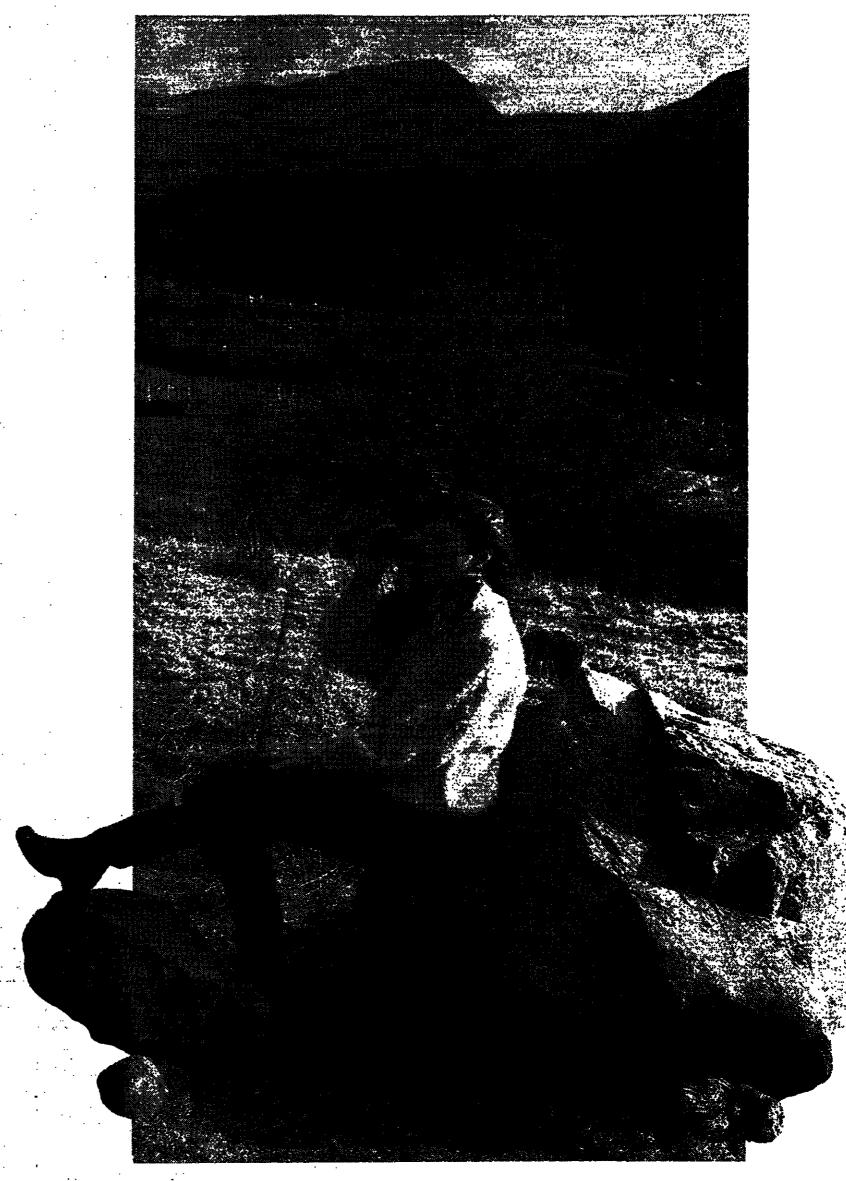
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INTERNATIONAL NEWS

South Africa reverses land claim decision

By Patti Waldmeir in Johannesburg

South African Government has agreed to restore land to some of the 3.5m blacks forcibly removed under apartheid, reversing an earlier decision to reject all claims for restitution

Mr Hernus Kriel, the planning minister, told a press conference in Cape Town yesterday that an all-party Commission would be set up to adjudicate land claims – a key demand of the African National Congress (ANC). The decision represents a

major climbdown by Pretoria, which had earlier rejected out of hand all claims by families evicted from their homes as part of the National Party's policy of confining all blacks to separate homelands.

The government acknowledged that it had responded to criticism from the ANC and others when deciding to with-draw two bills in its recent land reform package, and table a new one making provision for the Land Commission.

Details of the planned resto-ration remained vague however Mr Kriel said that the Commission would be able to allocate land currently owned by the state (some of it pur-chased in order to create sepa-

rate black homelands).

In addition, the state would purchase a further unspecified amount of land to satisfy claims made to the commission. He declined to say how much land might be involved, though land reform experts

said the first category would involve at least 1.25m hectares

Mr Kriel ruled out a blanket programme of restitution. "We cannot give a blank cheque to restore land. We simply cannot afford it financially," he said, but added: "The government is not insensitive to the cause of people or communities who were possibly disadvantaged in

Any such person can take their claim to the commission, which will be appointed by the State President, Mr F.W. de Klerk He will be free to act on the commission. or ignore the commission's recommendations – a feature of criticised by anti-apartheid

mr Kriel also announced that measures to protect stan-dards in white areas would be softened, with racially discrim-inatory by-laws to be outlawed. However white owners of private land would still be allowed to reject black tenants.

and local authorities may still be able to pass by-laws which effectively – if not overt-ly – discriminate by race. Opposition parties in parliament will oppose these mea-sures, which could impede the bill's passage through parlia-

ment.
Ruling National Party member Mr Piet Marais, chairman of the parliamentary land committee, said the new proposals were drawn up in consultation with groups and individuals, including the ANC.

Moderate turnout looks likely to help Hindu revivalist party

Surge in violence as Indian polling begins

THE FIRST day of polling in India's general election was marked by unprecedented violence in which at least 36 people were killed and one town in northern India was placed under indefinite curiew.

Turnout in the poll, which covered 204 of the 510 seats being contested, was moderate a factor that seems likely to favour the more tightly organ-ised, Hindu revivalist Bharat-

iya Janata party (BJP).
Yesterday's death toll adds
to the more than 100 people
killed during the campaign making the election far more violent than the last general election in 1989, when 67 peo-ple died during the three days

of polling.

Worst hit in yesterday's violence was the town of Meerut,
north of Delhi in Uttar Pranorth of Delhi in Uttar Pra-desh, which has a long record of clashes between its Hindu and Moslem population. In yes-terday's rioting in the town, in which 14 people were killed, shops were burnt and looted and mobs exchanged fire. A curfew was imposed on the

Rioting also took place in other towns in Uttar Pradesh with large Moslem populations including Bulandshahar, Sikandrabad and Varanasi (Benares). In Varanasi 50 people were wounded in incidents

ple were wounded in incidents of stone-throwing and shooting, and in explosions.
Violence was, however, mostly limited to the northern states of Uttar Pradesh and Bihar, and west Bengal and Andhra Pradesh in the south. In Andhra four people were killed and five others injured when para-military forces. when para-military forces opened fire to halt a clash



Supporters of the Samajvadi party wield guns outside a polling station in Bulanshahr in Uttar Pradesh

between supporters of the Con-gress party and the local Tel-egu Nationalist party who were throwing grenades at each other.

As a result of violence and attempted vote-rigging, polling was halted at 41 booths in

gal, and a re-poll ordered. Election commissioner T.N. Seshan said that, despite the violence, voting had been smooth in most states: "We

Opinion polls, and most political analysts, see former prime minister Rajiv Gandhi's Congress party winning the biggest slice of the 537 parlia-mentary seats at stake, but falling short of a majority.
Polling took place yesterday

in 10 states. The second phase of the poll is on Thursday allowing troops time to rede-ploy – with the final day of voting on Sunday. Those parts of Bihar and Uttar Pradesh

which did not vote yesterday will vote on Thursday.

Boat people step up rush to Hong Kong By John Effott in Hong Kong

NEARLY 1,000 Vietnamese boat people have sailed into Hong Kong during the past three days in the biggest spate of arrivals since June 1989. The arrival rate this month is more than six times higher

than a year ago, and govern-ment officials believe that it has been partly caused by serious food shortages in north Vietnam, where rice is reported to be especially

About 35,000 Vietnamese arrived in Hong Kong during the peak year of 1989. Officials do not expect this year's total to go so high, but there has been a sudden increase recently.
So far this month nearly

with just over 500 in the same period last year. The total so far this year is 6,700, up from nearly 2,000 a year ago. This has sparked fresh oppo-

sition among Hong Kong's eth-nic Chinese population, who object to the colony being used as a place of first asylum. Two weeks ago legislators voted against fresh funds being allo-cated to expand detention camps, which are designed to accommodate 54,000 people.

Hong Kong is urging the US to relax its long-standing oppo-sition to mandatory repatriation of the boat people.

and holding sale negotiations.

official local Turkish time.

these shares will be specified.

Anniversary Tibet wants to forget

Colina MacDougall looks back on 40 years of Chinese 'liberation'

HIS WEEK China celebrates the 40th anniver-sary of the "liberation" of Tibet. The parties in Chine embassies around the world will be low-key, since many potential guests have politely declined.

In Lhasa, now overhung by a new Chinese-built 70-metre monument in commemoration of the event, the Chinese have imposed a 22-hour-a-day curfew to keep Tibetans off the streets. Security men are thick on the ground and foreign journalists have been banned. The Peking media are anxiously countering western coverage of human rights abuses with sto-ries of Tibet's feudal past com-pared with the peace and prog-ress under Chinese rule.

But it is also the (uncelebrated) 11th anniversary of the visit of Hu Yaobang, the dis-graced liberal party leader whose death in 1989 sparked the Tiananmen Square demonstrations. If there were no other evidence, Hu's words in Lhasa (which infurlated hardliners in Peking) would undermine any claims that China's control of Tibet has been bene-

Surprised to find how far living standards had dropped under Chinese rule, he called for a commitment from the central government to relieve the people's burdens, and drastic reforms which would "let

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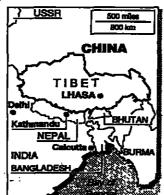
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Tibetans be masters of their own lives". He also proposed genuine autonomy and the repatriation to China of many Chinese officials.

The failure to implement Hu's proposals and the continuation of China's colonial-style policies led to the Tibetan pro-independence demonstrations of the late 1980s. These have brought tough repression.
As these emotional May

anniversaries approach, Peking fears a revival of protest, especially since the world spotlight has since fallen on its behav-iour. Paradoxically, the "merci-less repression" in Tibet called for in 1988 by Qiao Shi, China's no. 3 leader, has speeded the Dalai Lama's campaign to attract outside attention. This has now succeeded to the point

that President George Bush, who previously resisted direct contact to avoid angering the Chinese, accorded the spiritual leader a meeting last month. This week's festivities are

specifically in honour of the signing on May 23 1951 of the "17-point agreement" which in effect annexed the previously-independent Tibet to the People's Pe ple's Republic.
It is surprising that China should want to call attention to

the 17 points, to which it has scarcely adhered. The contro-versial agreement was forced on a Tibetan delegation to Paking, when Chinese troops had already wiped out most of the inexperienced Tibetan army and occupied eastern Tibet (now mainly part of Sichuan province). The Dalai ment, fearing the slaughter that would fall on Lhasa if he refused.

The 17 points set out a framework for the future status of Tibet (bearing more than a passing resemblance to the Sino-British Joint Declaration on the future of Hong Kong) which included provisions that Peking would not change the existing political system, alter the status of the Dalai or the Panchen Lamas or compel communist-style reforms. It also guaranteed freedom of

Initially Tibet did get cau-tious treatment from Peking but this did not last long. The Tibetans in Sichuan resisted the imposition of Chinese policies, and sporadic revolts broke out which ended in the flight of the Dalai Lama to India in 1959. That was swiftly followed by the full absorption of the Tibet Autonomous Region, as it came to be called, into China's centrally-ruled politiFamine and violence fol-lowed as Tibet was subjected to Maoist policies, notably the Cultural Revolution. Food shortages killed many, and by 1980, only a dozen or so of the region's 6,000-plus monasteries and temples, the repositories of Tibetan culture as well as reli-

gion, were left standing. In the early 1980s, inspired by Hu Yaobang and the nationwide move to reform, Peking did rebate Tibetan taxes, abolish the commune system and give grants for economic devel opment. Some monasteries were repaired, religious prac-tices were resumed and education given a small boost. Tour ism increased and, in the rura particularly, life

But the move to send home se officials did not mate rialise. In fact, economic devel opment since has had the reverse effect. Chinese immigration into Tibet soared. The new jobs in civil engi-

neering, tourism and agricul-ture have gone to Chinese, not Tibetans, who did not have appropriate training.
Peking is investing yuan 1.3bn (£142m) in projects such

as airport expansion and roads, on top of yuan 15bn since 1959. This is not entirely disinter-ested since, while these pro-jects may be of general eco-nomic benefit, they have an obvious use in a strategic border region which is heavily militarised. It is also exploiting Tibet's rich minerals and for estry for use in China proper. So far, the motive of the Chinese seems to be to maximise Tibet's usefulness more than to benefit the Tibetans. Their

public celebration of the 17-

point agreement suggests they are unlikely to loosen their

grip on this most valuable, if

Iraqi secret police still at large

US troops make ready for Kurds to return

By John Murray Brown in Dohuk, northern Iraq

US TROOPS entered the city of Dohuk in northern Iraq for the first time yesterday, to prepare the way for the possible return of the thousands of Kurdish refugees still stranded on the Turkish border or camped in the security zone set up by the A military convoy led by US

amphibious vehicles accompa-nied a team of US disaster officials and experts from Britain's Overseas Development Adminprovincial capital to assess the public services, badly damaged during the crushing of the short-lived Kurdish uprising

Dohuk, which is just south of the allies' security zone is considered central to the allies plans to return refugees to their homes. More than 200,000 come from the city.
One US official estimated

One US official estimated yesterday that fewer than 10,000 had so far returned.

After meeting with Iraqi officials, Gen Jay Garner, the US commander, said the city "should present a secure feeling for the returning Kurds". However he said no decision had yet been made for the US to help restore the city's infra-

to help restore the city's infra-structure. The Iraqi military has withdrawn three miles south of the city as agreed with the allies. However coalition officials said security was still a problem.
Major Julian Baxter, the UK
officer represented in talks
with the Iraqia, said there was still a worrying number of Iraqi secret police still in the city, perhaps as many as 400.
Iraqi officials are clearly keen to play down the extent of the city's damage. Since reaching agreement over the weekend a number of Iraqi doc-tors have been sent to the city

hospital.

Ten UN guards, patrolling the streets in baseball hats and carrying Smith and Wesson revolvers, were yesterday an object of some local curiosity. Mr Stefan Demistura, heading the UN mission said the decision to arm the guards was "was useful for psychological and traditional reasons... But the best weapon we have is our blue shirt and our UN flag," he

The 10 officers are the van-guard of 400 to 500 UN security men to be stationed through-out Iraq as a confidence-build-

Mr Fred Cuny, leading the 12-member US civil affairs team, said he was concerned at the state of water supplies and the number of houses destroyed. On one approach road to the city centre whole streets had been turned to rub-

Mr Cuny said that perhaps as many as 800 homes had

Allied officials estimate that only half the city's water supply system is working. Food is also scarce, although the UN is bringing in 300 tonnes of provi-

up to Polish war-guilt in Israel

Walesa faces

By Hugh Carnegy

PRESIDENT Lech Walsen of Poland yesterday confronted highly emotive Jewish memo-ries of the holocaust and deep-seated stispicions of Polish anti-semitism during a state visit to Israel.

In contrast with so many modern presidential visits.

when attention is on the nuts and bolts of political accords and economic relations, the atmosphere on Mr Waless's arrival in Jerusalem was laden with more human concerns

over a bitter past.
Many Israelis are survivors or descendants of survivors from Poland where some an Jews died in the Second World War - the vast majority of the country's Jewish population. Many blame Poles for collabo-

Many blame Poles for collaborating against them.
Not long ago, Mr. Yitzhak. Skamir, the Polish-born Israeli prime minister, whose entire family died in the holocaust, said Poles sucked in anti-semitism "with their mother's milk". During his presidential campaign, Mr. Waless was accused of faming anti-semitism through remarks that he

accised of faining and semi-tism through remarks that he was "100 per cent Pole" with no Jewish ancestry. Mr Walesa's response was to come to Israel to face the issue for himself. He was given the platform of a speech to the Knesset – an honour bestowed previously only on Presidents

previously only on Presidents Sadat, Carter and Mitterrand. Referring to Nazi death camps at Auschwitz, Treblinka and Sobibor – all in wartime Poland – Mr Walesa said: "We too were the victims of the Nazis. We helped you as much as we could."

But he also acknowledged the bitter Jewish accusation of collaboration. "Here in Israel, the land of your reviture and the land of your reviture and the land of your reviture and the land of your forgiveness," he said. In reply, Mr Shamir recalled "the giory" of the Poland of his youth – but also "the humiliating anti-semitism".

More mundane issues were not entirely forgotten. Mr Wal-

not entirely forgotten. Mr Walesa, apparently hopeful that ties to israel can help Poland in its efforts to win western economic aid, said he sup-ported the search for a "just" peace in the Middle East and hoped for greater cultural, sci-entific and economic ties.

Mubarak names new defence and foreign ministers By Tony Walker in Cairo

PRESIDENT Hosni Mubarak of Egypt yesterday announced a cabinet reshuffle that included the appointment of new defence and foreign ministers. but to some surprise there were no changes in the economic portfolios.

The defence minister is Lt Gen Mohammed Hussein Tantawi, 56, veteran of five wars and former chief of operations. He replaces Gen Youssef Sabri Abu Taleb, who held the job for two years but was always seen as a stop-gap.

Mr Amr Moussa, 54, previ-

ously UN representative, becomes foreign minister in place of Dr Esmat Abdel Meguid, who was elected Arab League secretary general last week. Mr Moussa is a highly regarded career diplomat who has long been earmarked for ministerial office.

Among other changes was the appointment of Dr Bouros Ghali, formerly minister of state for foreign affairs, to be a deputy prime minister in charge of "foreign relations".

Lagos returns to central controls on banks

William Keeling reports on a plan to help ailing industry and defend the currency

IGERIA'S banking sector has had a turbulent start to the year, with the second to the year, with the government cap-ping lending rates and initiating a fierce liquidity squeeze.

Central bank officials say that the

measures were needed to help a trou-bled manufacturing sector and halt depreciation of the naira, which had fallen 20 per cent in five months. Bankers say the measures mark a return to central control and run counter to the principle of de-regulation, which has guided the government's five-year eco-nomic structural adjustment pro-

However central bank officials say that in 1990 banking irregularities emerged which had to be tackled. In the last six months of last year, lending rates rose from 21 per cent to 31 per cent, with a gap of up to 10 percentage points between lending and deposit

As one central bank official noted, "such a wide margin between the deposit and lending rates was not in the spirit of deregulation".

Critics of the banks say that they have exploited deregulation - sometimes illegally - and in so doing are undermining the chances for overall economic recovery.

Bankers argue that while they make use of economic distortions, such distor-tions are usually of the government's making. An example cited is the differential between official and autonomous exchange rates which bankers have exploited by round-tripping funds, buy-ing foreign exchange at the official mar-ket and selling in the parallel market.

A second distortion has resulted from the central bank placing tight credit ceilings on the sector. This had, until interest rates were capped, allowed banks to keep lending rates high in the face of excess demand for credit.

The profit potential of the sector has led to its ratio and the sector has led to its ratio. led to its rapid growth, with the number of commercial and merchant banks rising from 82 at the end of 1989, to

about 115, with at least another 30 applicants waiting to join the fray.

The central bank has faced problems both in controlling the extra liquidity each new entrant brings to the sector and in monitoring the professional practices of the banks. As one commer-cial banker explained, "last year we had something very close to an oligopolistic situation. For instance, the banks effec-tively pegged their interest rates at a

Hardest hit by the high cost of borrowing was the already depressed manufacturing sector. High interest rates have also been blamed for the low level of new direct investment in the economy. The decision to cap interest rates at 21 per cent was initially welcomed by manufacturers but the measure had an inevitable knock-on effect on the The naira, which had held steady at about eight to the dollar throughout most of last year, slid to less than 10 to the dollar by mid-March. For the manufacture of t facturing sector, which is heavily import-reliant for inputs, the benefits of a lower cost of borrowing were all but

The central bank responded by squeezing liquidity in the banking sec-tor and, over a two-week period, almost tripling the amount on offer at the auc-

It also banned 18 banks from the auction for four weeks because they failed to cover their bids with sufficient naira funds. Bankers doubt, however, whether the moves will have more than a short-term effect.

hile the naira did appreciate to 8.7 naira to the dollar at the end of March it has slipped again to mor than 9 to the dol-lar. And although activity on the paral-lel market is subdued, the autonomous exchange rate has remained steady at about 12.5 to the dollar.

Bankers argue that if exchange rate stability is to be achieved, the central bank would do better to fine tune its auction system. Those banks making the lowest bids currently fail to win foreign exchange which, bankers say, has tended to force up the rate. The central bank also stipulates that

bid must not be charged more than an additional one percentage point on the value of the each bank's bid. With demand for foreign exchange

outstripping available supply, those banks which bid highest profit the Bankers say that the central bank

has not been receptive to alternative suggestions. As one banker noted, "we told the central bank last year that they should make us sell at a fixed rate above the weighted average of bids. That way those who bid low benefit and those which bid too high will have their

profits cut."
Instead, while the intention may have been to limit the excesses of the banking system and to assist manufacturers. the government has adopted an exchange rate exhibiting a large degree of central control. And such a policy has implications outside the hanking sector, particularly for manufacturing and agricultural exports, which the

ment policy is likely to backfire. Many banks are now using subsidiary finance companies to lend funds on, in order to break the interest rate ceiling and the gap between the official and autono mous exchange rates, currently almost 40 per cent, has increased potential profits for banks which engage in the customers on whose behalf the banks illegal round-tripping of funds.

structural adjustment programme had tried to promote. Bankers argue that present govern-

with EC

for big cuts in subsidies to

However, Mr Frans Andries-sen, the EC external relations

"When you put the stakes too high, you risk not getting

He also said that

Cairns Group

ing nations within the negotia-Australian ministers pressed

European farmers, which the Cairns Group blames for the collapse of the Uruguay Round of the Gatt negotiations in Brussels last year.

and trade commissioner, warned the Cairns Group against pressing too hard for changes to the Community's Common Agricultural Policy.

what you want to get," Mr Andriessen said after the

Mr Andriessen said US moves towards "fast track" approval of Gatt agreements indicated that the round could be concluded successfully at the end of the year.

changes to the CAP would reduce European production but warned that subsidies would always be necessary within the EC.

WORLD TRADE NEWS

on China trade'

By John Elliott in Hong Kong

THE US is likely to impose onerous conditions on any extension this year of China's most-favoured nation (MFN) trading status, according to a group of Hong Kong-based US businessmen who have recently held high-level meet-

ings in Washington.
This is a far more pessimis-This is a far more pessimistic forecast than had been expected and is causing serious concern in Hong Kong. The colony's viability as a trading and financial centre depends heavily on China's international business, and its manufacturers rely on cheap labour in southern China to process many of their goods.

many of their goods.
Estimates suggest that an ending of the MFN status could wipe out up to 2 per cent from Hong Kong's annual economic growth rate, which this year is forecast to rise by 3.5-4.5 per

Some 40,000 to 50,000 jobs might be lost in companies linked with southern China. Mr Warren Williams, presi-dent of Hong Kong's American Chamber of Commerce, said yesterday he had returned from Washington "much less confident" that President. George Bush could eventually push through a renewal of MFN without imposing condi-tions that would be unacceptable to China.

After meetings with senior White House officials, leading

White House officials, leading congressmen and departmental officials, he realised there was a "deep-scated feeling in all quarters" 'that China had "done nothing" to earn an unconditional extension.

"In all probability, MFN will not be extended without conditions. That is where my money would go if I was betting on the issue right now. The battle is just beginning to be fought, and it is going to be a battle," said Mr Williams.

Mr Bush has to make his

said Mr Williams.

Mr Bush has to make his first move on renewing MFN by June 3. He has indicated his personal backing for such a step. But his opponents cite issues such as China's trade surplus, which is forecast to reach \$15bn (£8.6bn) this year, Peking's poor human rights record, protectionist policies on intellectual property, export of products made by prison labour and arms sales.

arms worth up to £400m to Brunei has been held up for more than 18 months after being agreed by Mrs Margaret Thatcher, then the UK prime

No firm contracts have yet been signed and part of the deal could be lost to German or Italian suppliers.

Mrs Thatcher signed a proto-

col covering the supply of air-craft and naval vessels with Sir-

wealth Conference in Kuala Lumpur in October, 1988. The proposed deal involves the supply of 16 British Aero-space Hawk aircraft, some of which would be two-seat trainers and others single seat fighters. The sultanate does not have any fixed-wing aircraft in

counting on completing the deal but contracts had yet to be finalised. The precise mix of trainer and fighter versions had to be determined.

The Southampton-based Vosper Thornycroft shipyard was expected under the govern-ment-to-government agreement its air force, only helicopters.
This part of the package is to supply three Vigilance-class corvettes or large offshore

The shipyard, heavily dependent on export orders, received a setback last summer when Brunei said it planned to re-

open the corvette purchase to international competition. It is understood, however, that no invitations to tender have been

The potential competition would pit Vosper Thornycroft

Study finds that Japanese consumers pay the price

By Robert Thomson in Tokyo

A JOINT US-Japan study has found that the same German spark plug is four times more expensive in Japan than in the US, that British Jam was more than twice as expensive in Japan, and that prices of comparable products are on average 37 per cent higher in

Japan.

The study was released yesterday during talks between US and Japanese officials to review progress in the Structural Impediments Initiative (SII), which was launched two years ago in an attempt to remove "structural" bartiers to bilateral trade and to reduce Japan's huge bilateral surplus.

A similar price study conducted in

A similar price study conducted in October 1989 found that products were 39 per cent more expensive in Japan than in the US, and Mr Michael Farren, the US under-secretary of commerce, said the new results suggest that Japa-nese consumers pay unfairly high prices and that imported products still

face significant obstacles in Japan. "What you see in these prices is a lack of competition," Mr Farren said. He suggested that the multi-layered Japanese distribution system and the monopolistic tendencies of Japanese corporate groups contributed to the higher prices, which should provoke consumer debate within Japan on readed afforms.

Of the 112 products surveyed by Japa-ese and US government researchers, 67 per cent were more expensive in Japan, and of the 40 products made in Japan, 12 were more expensive in Japan, including a bottle of sake, which was 44 per cent more expensive than in the US. The survey also included 20 products from third countries, mostly European, of which 19 were more expensive in Japan than the US. US officials want to use the two-day SII talks as an opportunity to press Tokyo for increased monitoring of the

the talks yesterday with a comparison between the numerous changes introduced by the Japanese government and the relative inaction in Washington, which has insisted that the initiative is a "two-way street."

allegedly unfair trading practices of the

Japanese corporate families known as keirelsu. They also want further reforms to the distribution system, and tougher anti-monopoly legislation.

Japanese officials are disappointed by the US response to SIL Mr Koji Watan-

abe, the deputy foreign minister, began

However, Mr Farren defended the US performance, and Washington's failure to keep a promise on reducing its budget deficit was due to the unexpected burden of US savings and loan crisis. He said that promised action had been taken in education reform and export

●US Vice President Dan Quayle yes-terday heard hints from Prime Minister

Toshiki Kaifu that Japan might ease its ban on rice imports, officials said, AP adds from Tokyo.

against the rival British yard Swan Hunter of Tyneside,

which confirmed yesterday

that it was certain to bid if invited. Other yards expected

to bid are Lürssenwerft and

Bremer Vulkan of Germany and Fincantieri of Italy.

echo difficultles over a 1988 British arms package for Mal-aysia, which dropped a plan to

buy Tornado combat aircraft in

favour of the cheaper Hawk.

Delays in the Brunei deal

Mr Quayle also pressed for Japan to buy more US vehicles and auto parts, and thanked Japan for its financial aid to the allies' war against Iraq and to Nicaragua's transition to democracy.

A Japanese Foreign Ministry official said Mr Kaifu hinted at a breakthrough in stalled international trade talks by saying Japan would be willing to work out the dispute over its ban on rice imports as long as other countries also worked out their "difficult issues" in

the talks. The trade talks broke down in Brussels last December over agricultural issues. Japanese law bans rice imports on the premise that Japan must be self-sufficient in its staple food. Japan's powerful and heavily subsidised farm lobby says it cannot compete with

STRATEGIES FOR THE SINGLE EUROPEAN MARKET ADVERTISEMENT

UK intervenes over Malaysia power dam

By Lim Slong Hoon in Kuala Lumpur

tract for Malaysia's largest hydro power dam, stalled by a dispute over repayment terms between UK financiers and Tenaga Nasional, the project's

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Mr Malcolm Ian Sinclair, the minister for state at the British Foreign and Commonwealth Office, met Malaysian officials in Kuala Lumpur last week. But the Pergau project remained in abeyance nine months since its construction and supply contract was awarded to British contractors.

The dispute centres on the privatisation of Tenaga, the electricity monopoly, which raised doubts about whether it qualifies for cheap, and subsi-dised commercial credit from

Without the credit, the M\$1.35bn (\$300m) contract to Balfour Beatty and Cementa-tion, the construction unit of Trafalgar House, is in jeoping loans at around the 0.8 per cent interest rate which Ten-aga is demanding, offering about 10 per cent instead.

Following Mr Sinclair's visit, however, the Malaysian government was still bolding UK to its word for the soft loan, it says, as part of Pergan's construction, supply and financing package. Failure of the deal could have political repercus-sions in UK-Malaysia relations ince Pergan is associated with the heart of improving eco-

The contract, the largest received by any UK company, has come to symbolises the revival of British commercial contracts withheld during the buy British last" policy days

of the early 1980s. The present controversy emerged after September 1 when Tenaga's legal status changed from a crown corporation, accountable to Parliament, to a private entity owned, albiet, 100 per cent by

Pergau had been on the pipe-line for four years or more, and much the negotiations were carried out before the change. In return for the construction contract, UK was to provide financing in two tranches:

THE UK government has 65 per cent, or about £200m, of intervened to umblock the conmercial credit. The balance, called the "UK content," is non-repayable British govern-

According to one senior manager, Tenaga had the option to combine the two fin-ancing elements into a single, apparently even cheaper, commercial loan repayable in 15 years after a five-year grace.

Financing details was to be sewn up within three months

sewn up within three months of the award so that the entire deal would be readled by December. Completion of Pergau, near the Malaysian-Thai border, is 1996 after 58 months. It seems unlikely UK finan-ciers were unaware of Tenaga's chers were unaware of Tenaga's inpending change; J Henry Schroders Wagg, the UK financial group which acted as adviser, had helped mapped Malaysia's privatisation.

Malaysia seems inclined to view Pergau as a government-to-government deal, insisting changed. Tenaga's public sale had been put off twice from December to next March, then May. Tenaga says the postponement was necessary for an independent audit of the group's assets. It has been esti-mated at around M\$11bn, of which a divestiture stake of 25 per cent is plausible, according to one analyst.

Tenaga's annual revenues have risen steadily by around 7 per cent over the past four years to M\$8.1bn at last August. But its 1990-91 forecast pre-tax profit is expected to fall affecting thus its offer price.

Long-term debt, at M\$5.3hn is 100 per cent of equity though, with yearly capital expenditures expected to double to M\$2bn this decade, the

ratio could rise.

Tenaga has 4,900 MW in installed capacity and plans to add 3,000 MW, including Pergau's 600 MW, over the next five years. For its previous capital expenditures, Tenaga had relied on inexpensive credit from organisations like the Asian Development Bank.

the Pergau deal remains blocked the contract value has

Leading through Flexibility and Innovation

Casio Computer, a leading consumer electronics maker, is closely tracking changes in world markets and customer needs to read the benefits these changes will bring.

Kazuo Kashio, president of Casio Computer Co., Ltd. in Tokyo, and Dick Rayner, managing director of Casio Electronics Co., Ltd. in London, explain,

as well?

By Russell McCulloch



Mr Dick Rayner, Managing Director, Casio Electronics Co., Ltd.

a manufacturer and exporter in any market is to establish a network of sales and distribution bases in key market areas, and this is what we have done. We have Casio Electronics in London handling sales throughout the UK and Casio Computer in Hamburg covering sales and distribution in Germany. For other countries in Europe

we have accredited distributors, and their activities are coordinated by Casio Europe from Amsterdam. In Eastern Europe, we now have local offices in Budanest and Berlin, so I think we are well represented throughout the continent. This has been a major reason for our strength in the

European market.

McCulloch: How do you view the unification of the European market in 1992 and how are you positioning Casio to take full advantage of the integration?

Kashio: The formation of a single market in Europe will represent a major event in world history. This is something which Casio is watching very closely. This kind of market integration may well be repeated in other parts of the world among regional trading blocs and so from that point of view we will be monitoring the situation very carefully to see what advantages this might offer for our business. As one preparatory measure, we have altered the structure of our Export Division and created a Europe Division which will enable us to swiftly cope with any changes occurring there which might affect our

McCulloch: Is Casio examining the possibility of establishing manufacturing bases in Europe?

Kashio: When we look at offshore production facilities, we have to consider the benefits both in terms of production costs and marketing opportunities.

New Plants in Malaysia and Japan

Casio has recently established manufacturing operations in the US and Mexico and later this year we will be opening a new plant in Malaysia. And, at the moment we are preparing to open our new factory in Japan in Kochi Prefecture on

Shikoku Island. So, of course, we are trying to establish a worldwide network of manufacturing facilities which will increase our competitiveness and strengthen our sales base. So far, as Europe is concerned, we are ready to set up production facilities there at any time, but I think it is important that we first wait and see how the process of market integration is achieved before

McCulloch: Finally, given the success Casio has had to date in so many product

areas, where will your focus lie in future? Kashio: Generally speaking, until now Casio has been an 'innovation driven' company in that we come up with new ideas or inventions and then refine them into products for the marketplace. While Casio will continue to be an innovative manufacturer of consumer items, I would like to reverse this order by making product development more closely attuned to changing market demands.

'Personal Automation': **New Growth Area**

We are already achieving this with our digital diaries in the area we call PA or 'Personal Automation'. Our diaries have been very successful both in Japan and overseas, and we foresee huge growth in this sector in the future. But, at the same time, users are demanding much more of their diaries. Our aim is to transform them into Personal Terminals so that they can be easily linked to personal computers and the data up-loaded. In this way, our diaries will become an integral part of modern business activity. This is what I mean by tailoring our products closer to market needs. As a leader in the field, Casio is in the best position to create entirely new markets for a range of PA products while still maintaining our lead and we are already working to realise this objective. Although PA has been an important pursuit for Casio for many years, on April 1 this year, we established a special PA division at our Hamura, Japan R&D Centre, together with a PA sales task force, which is based in our Tokyo head office. With this major organisational change, I am confident that we can capitalise on changing consumer demands.

Multinationals warning to Brazil over free zone

By Victoria Griffith in São Paolo

DOZENS of multinationals operations in the Amazonian free trade zone of Manaus II the Brazilian government does not raise the area's import quota soon. The free zone is experienc-

ing its worst crisis ever," said Mr Ricardo Botelho, spokes-man for BASF, Brazil, which manufactures video tapes in the region. We may close down our

Manans factory at any moment, said Mr. Joac de Aquino Rotta, institutional director of Philco, the television and video cassette manufacturer.

In addition to BASF and Philco, some 50 multinationals have filed complaints over import quotas with the superintendence of the Manaus free zone, according to Mr Alfredo Nascimento, the organisation's president. The zone has been fighting to maintain viability since the government decided to begin lowering tariff barri-materials from abroad, say the ers in the rest of the country companies, will make them last year. With Brazil's move to more competitive both at home freer trade, Manaus has lost its and in foreign export markets.

privileged status as a duty-free "The conditions which made us invest in Manaus are just

plained Mr Botelho, whose group has put \$37 million into its Amazonian factory since 1989. "Lower tariffs in the rest of Brazil have wiped out our domestic sales advantage." Manaus has also experienced

a dramatic surge in labour costs over the last two years. According to Mr Botelho, Amazonian labour was once 40 per cent cheaper than at the company's Sao Paulo factory. Today, it is 20 per cent more expensive. Rising costs led BASE's Amazonian factory to suffer a \$15m loss last year. Hemmed in by stiff competition and high wages, multipa-tionals in Manaus are counting on lower input costs to pull them out of the crisis. They are pushing for an increase in this year's imort quota from \$1.2bn to at least \$1.6bn. Cheaper

for innovative technology and precision have contributed greatly to the success of our watch sales.

New Sensor Watches

to be Unveiled

McCulloch: Casio's business results

Kashioc Our sales of watches and

during last fiscal year were excellent.

Which divisions contributed most to your

musical instruments were especially strong

last year. In our watch division, we have

always maintained that watches represent

the most useful and the most comfortable

form of personal equipment which every-

body owns. We are making watches more

functional by incorporating sensors which

measure changes in temperature, atomos-

pheric pressure and so on. Later this year

we will be launching a new range of "BP

Monitor" watches which, for the first time

anywhere, will enable people to easily

check their blood pressure. Last year, we

introduced stopwatches which are precise

to 1/1000th of a second. Our reputation

increase in sales?

Last year was also a very good year for our musical instruments and we have just begun marketing a brand-new range of electronic pianos which has a built-in compact-disc player which allows performers to play along with their favourite CD recording and full orchestra accompaniment. By adapting existing technologies and developing new ones, we have been able to record spectacular growth in this area. Over the last ten years our accumulated sales have reached some 30 million units.

McCulloch: Where does Casio rank in terms of market share in Europe and the

rest of the world? Kashio: Our range of products is very broad but we lead in almost every field. In calculators, we are the leader both in Europe and throughout the world. As for scientific calculators, we are first in this sector, as well, because most schools are using our calculators.

Leading in Europe and the World

As for watches, both digital watches

Price, Timing and Sales Backup are Crucial Firstly, the products have to be right

and combination watches, are No. 1 in

Europe. In musical instruments, I can con-

fidently say that we created an entirely

new market niche with our electronic key-

boards, so our market share is very high

for these, as it is for electronic cash

registers and personal 'pocker' colour TVs.

For all of these, Casio was the original

developer of these products and this is

McCulloch: Does this apply in the UK

Rayner: Casio's position in the UK is

For digital watches, we are almost the

a reflection of Casio's position throughout

the rest of Europe. In calculators, we

dominate the High Street market as well as

leading the education market with our

only digital watch in the general consumer

market. And because we actually created

the home market for keyboards in the UK.

we began with a dominant position and

McCulloch: How have you been able

Rayner: We've been able to set the

pace and keep our lead because of a

have retained our leadership ever since.

to maintain that dominant position?

why we lead in market share.

scientific calculators.

combination of factors.

for the marketplace and timing here is crucial. By keeping abreast of market trends, Casio is usually the first to launch new and innovative products and this usually leads to dominance. Secondly, pricing has to be in line with market trends and demands, and again, Casio's prices are always competitive. Lastly, distribution and after-sales service have to be correct to present the product for consumers to purchase and then to keep them satisfied with performance once they've made the decision to buy. I think we do all of these things quite

McCulloch: What factors do you think have contributed to your success in Europe?

Kashio: The most important goal for

CASIO.

CASIO COMPUTER CO., LTD.

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CASIO ELECTRONICS CO., LTD. Unit 6, 1000 North Circular Road, London, NW2 7JD Telephone: (081) 450-9131 Facsimile: (081) 452-6323

by Michael Skapinker

SONY of Japan will today announce that it will build a £147m television factory and research and development cen-tre in south Wales, employing 1.400 repole

tre in south Wales, employing 1,400 people.

The site at Pencoed, Mid Glamorgan, was chosen in preference to Barcelona, where Sony already has a manufacturing site. The plant will complement Sony's 18-year old facility at Bridgend, also in Mid Glamorgan.

The Sony investment will be

Mid Glamorgan.

The Sony investment will be the biggest in a new factory so far in Wales, exceeding Toyota's £140m engine plant on Deeside or Bosch's £100m-plus alternator plant outside Cardiff, the capital.

The decision to build the factory in Pencoed follows a visit to Tokyo last November by M.

to Tokyo last November by Mr David Hunt, Welsh secretary. and Dr Gwyn Jones, chairm of the Welsh Development

Agency, to press Sony to expand its Welsh operation. The new facility will also carry out research, develop-ment and design of new colour televisions, computer displays and broadcasting equipment.

Although the UK has been successful in attracting Japanese television manufacturing investment since Sony built its Bridgend factory, the compa-nies have tended to base R&D in Germany. Sony is expected to announce today, however, that Pencoed will be its lead-ing television research and

development centre in Europe. In opting for south Wales over Barcelona. Sony is thought to have been influ-enced by the high quality stan-dards achieved at Bridgend.

Minister rejects calls to slow pace of health reforms

MR WILLIAM Waldegrave, the health secretary, yesterday told the largest group of workers in Britain's state run National Health Service (NHS) that he was not prepared to slow reforms, including approval of more self-govern-

his first big speech since the the outbreak last week of a fierce political row over the reforms was given a lukewarm, rather than hostile, reception by delegates at the Royal Col-lege of Nursing's (RCN) annual congress in Harrogate, northern England.

With no sign, however, of any let up in the pace of the pre-election battle between the Conservatives and Labour, the NHS is still expected to be the subject of clashes in the House of Commons today between Mr John Major and Mr Neil Kinnock. Ministers said yesterday they are determined to main-tain their charge that Labour had "lied" about the NHS reforms to win last week's

Monmouth by-election. The reforms are based on a policy allowing state-run hospitals to take control of their own finances by opting out of local authority control.

Mr Waldegrave said it would be wrong to heed calls from organisations, including the RCN, to slow devolution of management to NHS trusts and reforms of NHS finance.
"The uncertainty and confusion would be far worse from

the failure of leadership than are the difficulties and strains

we face in a swift transition to a new system," he said.
"It would be far worse for health service workers of all kinds if the wholly predictable and predicted uproar at the beginning of the changes we are introducing led us to turn back and leave the service and all who work in it with no sense of direction or leadership at all."

Mr Waldegrave, who has seen the future of the health seen the future of the health service emerge as one of the most flercely contested issues in the run up to the general election, defended the introduc-tion of an internal market in the NHS.
"It is right that we should be

building a system where the money goes where it can provide most care," he said. "It is too important to allow ourselves the luxury of wast-

ing anything."
Politicians who promised unlimited money were telling lies, he added. Professor June Clark, in her

presidential speech to the congress, said: "The reality is that the rough discipline of the market is producing unforeseen consequences which are already causing suffering to patients, chaos in the service and great anxiety."
Nurses believed health ser-

vices were a basic human right, not commodities to be



Pointing the way: William Waldegrave indicates that there is no turning back at yesterday's RCN conference

place, she added.

Mr Waldegrave announced

an 8 per cent increase in student bursaries from September and an extra £3.2m for units pioneering new nursing prac-

Ms Christine Hancock, RCN general secretary, told a press conference Mr Waldegrave came bearing gifts because he knew he was in trouble. But nurses were still angry.
Commenting on claims that

at least one London hospital would close because of the reforms, Mr Waldegrave later said: "At the right time, we will, of course, have to inter-Speaking at his union's convene and smooth the re-organisation in London to make sure that teaching and research are

properly safeguarded."
The government's plans were, however, condemned yesterday by Mr Rodney Bickerstaffe, general secretary of the public service union

Nupe, who said that the pay and conditions of health workers were being badly affected by the NHS reforms.

ference Scarborough, north east England, Mr Bickerstaffe claimed that changes to employment conditions in self-governing trusts such as the ambulance services of Humberside and Northumbria were damaging the interests of

He said a "Beirut of local negotiations was being put in place of the service". Lincolnplace of the service. Lincon-shire has declared a pay cut for temporary staff, while Nor-thumbria has offered a 21 per cent rise to emergency crews

working 12-hour shifts. The Nupe conference also called for the TUC to reconsider the abolition of national structures for the trades counclis which act local pressure groups for union members.

Radical law would abolish monarchy

By Emma Tucker

A BILL to replace Britain's A BILL to replace britain a unwritten constitution with a written version was presented to parliament yesterday by Mr Tony Benn, the opposition Labour party MP and long-time campaigner for constitutional

reform.

The bill, which stands no realistic chance of becoming law, includes provisions to abolish the monarchy, lower the voting age to 16, introduce equal representation of women in parliament and end British jurisdiction over Northern

Mr Benn said many of the bill's provisions, such as abolishing the House of Lords, disestablishment of the Church of England, and setting up national parliaments in England, Scotland and Wales were already popular across

the country.
Mr Norman Tebbit, the former Conservative party chairman, will argue in favour of disestablishment of the Church of England in a television programme to be broadcast today. The Labour party has pledged to abolish the House of Lords. Mr Benn said he hoped to "build up a head of steam outside parliament" for his bill by sending copies to trades unions, constituency parties

and political organisations. In a speech to the House of Commons, Mr Benn said the debate on constitutional reform cut across party lines. He said people were interested because they wanted parlia-

ment to serve them. His bill would terminate the constitutional status of the Crown and the House of Lords.



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London may by-pass EC on green labelling

government will introduce its own scheme of environmental labelling for products unless the European Commission is able to agree by the end of the year on a scheme to cover the whole of the EC.

The decision to press ahead with a British scheme unless the EC reaches agreement reflects the government's mounting frustration with the time it has taken for EC states to agree on common rules for environmental labelling.

ernment's stance on the issue was disclosed yesterday by Mr Michael Heseltine, the environment secretary, in a presenta-tion to the National Economic Development Council (NEDC). The EC initiative on label-

ling for products has become bogged down in a dispute over how how much information the labels should provide.

The UK is pressing for a label to cover the environmental impact of a product from its manufacture, through its use

to its disposal.

Some other governments, however, want the smount of information to be limited to manufacture and usage.

The EC proposals, which were presented at the March meeting of EC environment ministers are due to be dis-cussed at further meetings in

The Confederation of British Industry, the employers' organisation, told the NEDC discussion on industry and the envimnment that there were three difficulties with UK govern-

ment policy:

• A lack of clarity about public policy objectives particularly on transport and land Often UK pollution control

in competitor countries • The prospect of sharply higher electricity prices would put further pressure on the finances of industries such as steel and chemicals which need to make the most signifi-

cant polluting industries.

Mr Walter Eltis, the NEDC's director general said the minis-ters, business leaders and trade unionists attending the council had broadly agreed on the framework of policy on the

He said there was evidence that the participants in the council were increasingly able to establish a consensus on the practical aspects of issues such as environment and education policy.

UK increases aid to Africa and Bangladesh by £30m

By Emma Tucker .

THE government yesterday announced a further £30m in Britain's aid budget for humanitarian relief in Africa and

Bangiadesh. Mrs Lynda Chalker, the overseas development minister, said the increase demonstrated the government's commitment to "providing substantial humanitarian essistement at a humanitarian assistance at a time of unprecedented crises."

Since the news of famine in Africa and the cyclone disaster in Bangladesh broke a few weeks ago the government has been defending its record on overseas aid in the face of course and in the face of the course of the same than the most sent the same than severe criticism from the oppo-sition.

Mrs Chalker said the extra

funds brought the total addi-tion to the aid budget for humanitarian assistance this year to £80m

The bulk of the extra money will go towards famine relief in Africa with £20m reaching its target through non-governmen-tal organisations and international agencies. £5m will go to Bangiadesh. Details on the remaining £5m were still being worked out.

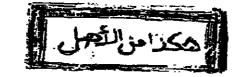
The opposition Labour party lcomed the addition but said the amount of money given by the government fell far below the 0.7 per cent of gross national product target the United Nations.

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on Emu

By Philip Stephens, Political Editor

70 The government was urged yesterday by Sir Geoffrey Howe to seize the opportunity offered by its European part-ners to play a central role in

shaping economic and mone-tary union (Emu).

The former deputy prime minister said that the draft treaty on Emu suggested ear-lier this month by Mr Jacques Delors – allowing Britain to defer a final decision on whether to participate in a single currency — meant that the government had now been offered a choice instead of an nltimatum".

The Property Sir Geoffrey, whose resignation last year over Mrs Margaret Thatcher's approach to Europe provoked her eventual defeat, warned that "a renswed exclusion of Britain from the process of institution-shaping within the Community would

whim the Community would be fatal".

In a lecture to the Institute of Fiscal Studies, he urged the government to accept Mr Delors' concession and "leave open for the present the vexed question of whether or not we actually participate in full EMU, whenever that occurs".

His speech came against the backdrop of growing unrest among some right-wing Tory MPs over whether Mr John Major will resist the pressure from Britain's European partners to to sign up for a single European currency.

But Sir Geoffrey dismissed Britain's capacity to veto a move by its partners to estab-lish a single currency as illu-

c'il labelli sory.

There was a tendency in Britain to underestimate the political will behind a single currency on the continent, he

If the government sought to halt the Emu process at the present intergovernmental con-ference, other nations would simply set up a new framework outside the existing EC trea-

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3.1

ish by £30m

ties. Sir Sir Geoffrey concluded: "My suspicion is that when the time approaches [for Enu], the Brit-ish people and the British Par-liament will not wish to be left behind once again on the margins of Europe".

ा राष्ट्रक एक इक्टरिक और अनुको के ल

Howe urges Major launches policies government to seize lead to revitalise education

By Andrew Adonis

THE prime minister yesterday ed a series of important reforms to the education sys-tem intended to promote a sharp increase in the number of 16-year-olds proceeding to further and higher education.

Hailing education as "an absolute top priority for the 1990s" Mr John Major, used the launch of the reforms as a platform to regain some of the political initiative and place the issue firmly on the general election manifesto.

An extended system of train-

an extensed system of training of two attonal qualifications and the removal of post-18 colleges from local authority control. are the main features of two white papers (policy docu-ments) issued yesterday. A sep-arate white paper for Scotland proposes reforms to training and higher education systems similar to those planned for

England and Wales.
"The country does not have the skilled or motivated workforce that it needs," Mr Major said. He added that a "determisain he accent that a "determination to break down the artificial barrier which has for too long divided an academic education from a vocational one" lay at the heart of the reforms.

The opposition Labour party responded by condemning the plant as failing either to plans as failing either to reform or to broaden A-levels,

described by Mr Major as "the

MANUAL workers at the

Norwegian owned Kvaerner Govan shipyard in Glasgow yesterday voted almost unani-

mously to continue their 11-day strike. They insisted that the company withdraw dis-missal notices which it issued

against the strikers last Friday.

Management at the Scottish yard last week raised the

stakes in the dispute by telling the 1,600 strikers that it would

only take back those workers

who accepted a tougher package of pay and conditions than that which they narrowly rejected before the strike

it also said it would end an

enhanced redundancy scheme

which offered large pay-offs to

Service and Esperature and State

By James Buxton, Scottish Correspondent

benchmark of excellence". Mr Tony Blair, Labour's employment spokesman, said the proposals "simply perpetuate the irredeemable choice at 16 between the vocational and the academic, which lies at the heart of our problems".

The two policy documents for England and Wales - one on education and training, the other on higher education include proposals to: • Remove sixth-form, tertiary

and further education colleges, 576 in all, from local education authority control. From April 1993 colleges will be funded directly by the government, through new councils appointed by and responsible Abolish the distinction

between universities and poly-technics, and establish a single framework and funding council for higher education. Poly-technics will be able to call themselves universities. ● Offer every 16 and 17-year-old leaving full-time education a training credit. Credits are currently available to 10 per cent of school leavers; from April 1993 they will be extended "progressively", and will apply nationwide by the "end of the next parliament". Each credit represents a voucher entitling a young per-son to buy a training pro-gramme leading to a recog-

Shipyard workers stay on strike

workers who left the yard. Kvaerner Govan said it believed the scheme gave an

incentive to "destructive ele-

ments" to try "to force the company into a situation

where large scale redundancies are unavoidable."

Mr Steinar Dragebo, manag-ing director at the yard, which builds gas carrying tankers,

said the company would wel-come an opportunity to discuss

the dispute with the unions. But no talks were planned. Mr John Carty, district sec-

retary of the confederation of shipbuilding and engineering unions, said the company's action last Friday had united the workforce with the union

officials. Previously the offi-

nised National Vocational Qualification. • Introduce a streamlined and

enhanced system of vocational qualifications by the end of 1992, to be implemented by the National Council for Vocational Qualifications. • Introduce an advanced

diploma, to be awarded both to students taking A and AS levels and to those gaining vocational qualifications of the same standard. However, A-levels will remain unchanged the diploma will be applying to two Alevels. equivalent to two A-level • Alter the school-leaving age to require all 16-year-olds to

complete their GCSEs at the end of the summer term.

• Allow schools to admit part time and adult students to sixth-forms, and to accept training credits or to charge fees for them.

Mr Kenneth Clarke, the edu-cation secretary, told the Com-mons that the government had set the aim of mass participa-tion in higher education, further education and training while maintaining and enhancwhile maintaining and emand-ing present high standards".

He added that the govern-ment expected one in three of all 18-year-olds to be in higher education by the end of the

century. Editorial Comment and Analy-

cials had advised the manual

workers to accept the terms the company was then offering

but 59 per cent of the workers

rejected them.
One of the points at issue in

an offer which involves pay

and working practices over a 21 month period is the compa-

ny's wish to move from four to five nightshifts a week. It now wants the nightshift to start earlier in the day.

Mr Dragebo has said that

despite the £26m investment Kvaerner has made in the for-

mer British Shipbuilders yard, the company might have to consider walking away from the yard. "It could be more expensive to go on losing money," he said.

BRITAIN IN



Labour calls for scrapping of hard-Ecu

Mr John Smith, the opposition Labour party finance spokesman, urged the government to drop its plan government to drop its p for a parallel European currency as he sought to emphasise his party's commitment to closer

European integration. Mr Smith described the government's plan for a "hard-Ecu" to compete with national currencies as "dead". Setting out Labour's policy towards European monetary and economic union, Mr Smith said it was reluctant to accept a rigid timetable for the creation of a single currency. It would also insist that a European system of central banks was accountable to governments through the Council of Pinance Ministers

Sales volumes fall sharply

High street sales volumes registered the largest monthly fall last month since July 1979, following the March spending spree to beat the budget increases in Value Added Tax.

The Central Statistical Office announced that provisional retail sales volumes fell by 3.5 per cent between March and April, to take the annual rate 2.4 per cent lower than last year's levels. While high street spending

UK for an injunction to prevent the distribution deal being terminated pending the remains very depressed, the CSO cautioned against extracting an underlying trend on the basis of two months' being terminated pending the outcome of arbitration. on the basis of two monins highly erratic figures. April's fall was widely predicted after the 3.6 per cent rise in March, when shoppers concentrated or brought forward purchases **FFV Aerotec** cuts 200 iobs The announcement of 200 job cuts at Manchester airport coincided with an official to avoid paying extra after VAT's rise to 17.5 per cent.

Ruling on

The legal battle between

Nissan Motor, the Japanese car maker, and Nissan UK,

by arbitration in Japan, Sir Nicolas Browne-Wilkinson,

the vice-chancellor, ruled. Sir Nicolas granted an

the Japanese car maker terminating its rights to

application by Nissan Motor

for a stay on a High Court action launched by Nissan UK,

which had sought a declaration that a notice from

exclusive distribution in the

UK was null and void.

The judge will give full reasons for his decision later

this week when he will rule on an application by Nissan

industry if proposals by the House of Commons home affairs committee are adopted. In recent years, bookies' contributions to racing had been "quite inadequate", according to the committee's chairman, Sir John Wheeler. In turn, the racing industry was sharply criticised for poor management and lack of commercial skills. At present, bookmakers contribute about £37m a year to the industry; the committee wants this bumped up to £50m a year at 1991 prices, starting in 1992-93. ceremony to mark the roofing of its new £570m terminal. The terminal will open to

Racing presents financial burden to bookmakers

Britain's biggest bookmaking concerns will be forced to pay more money to the horse racing

Nissan dispute passengers in April 1993. The job losses are being made by Swedish company FFV Aerotec, an aircraft engineering and maintenance company which has operated at the airport for two years. its UK distributor, over sales in Britain must be dealt with The firm, which has several aircraft service contracts. employs 325 people.

> Bank loss may run to millions The losses at Wallace Smith Trust, the small London bank whose chairman was recently arrested for alleged fraud, may run into the "tens of millions of pounds", according to one of the provisional liquidators. Mr Tim Hayward of KPMG

Peat Marwick McLintock said it was too early to calculate a more precise figure because assets were still being traced. Mr Wallace Duncan Smith, the bank's chairman and joint managing director, is on ball of £250,000 after being arrested at the end of April and charged with fraudulent trading. Mr Smith is a Canadian citizen and the bank

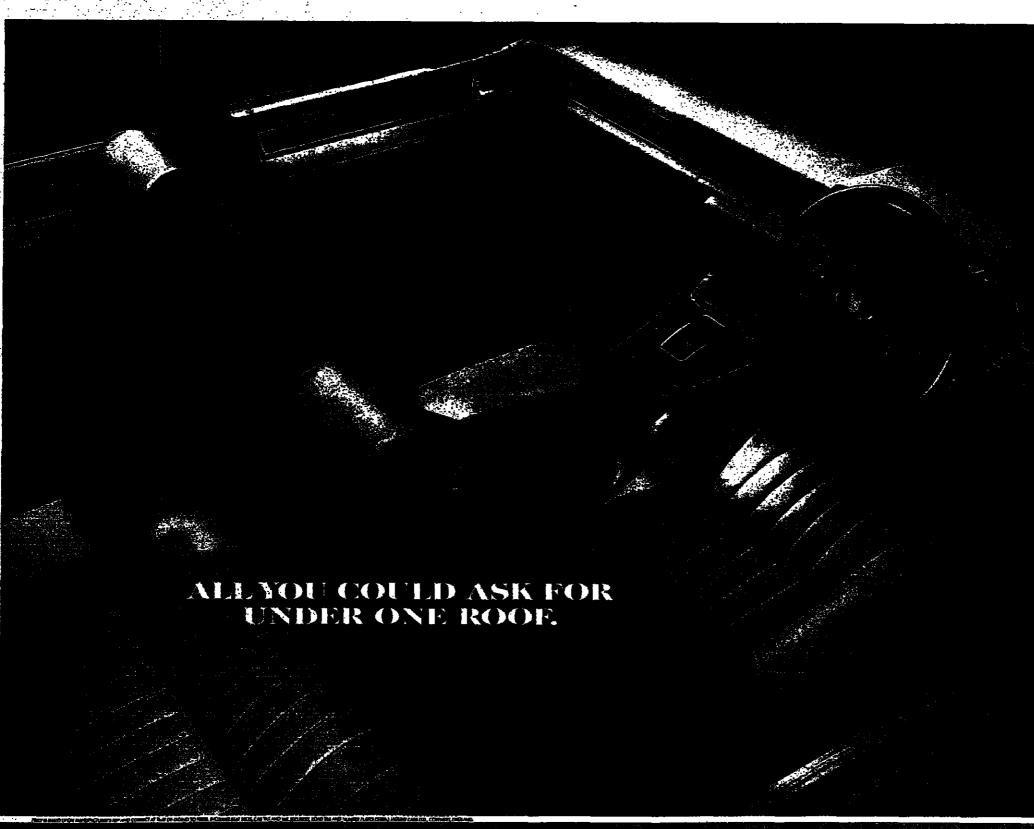
is owned by a family trust.

Gambler falls at first hurdle

A man who gambled away on horse racing more than 13m fraudulently obtained from investors was jailed for four years. Mr Nicholas Young, former executive director of Clark Kenneth Leventhal, an international association of accountancy firms, pleaded guilty to 11 charges including

forgery and deception. While claiming to invest money in offshore trusts, he was actually spending it on a system of horse racing he believed he had perfected while attending Cambridge university in the 1960s.

London upgrade An effort to raise the quality of life for Londoners will form the centreplece of Labour's manifesto for the capital. The opposition party outlined a plan for a new £160m orbital rail line usin updated existing track to take passenger and freight train traffic away from the centre of the city. The loop line would have bus and tube interchanges.



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TECHNOLOGY

Increase in good vibrations

The arcane world of vibration technology is waking up to the "green effect" as users of heavy equipment begin to realise the importance of cleaning up

For IRD Mechanalysis the green dividend might be thought of more as a comment on the Cheshire hills close to its UK headquarters than as an influence on its business.

But IRD, which in the 1950s pioneered the technique of etermining the condition of machines through vibration analysis, has noticed a growment among clients over the past two or three years.

Jamie Lumsden, IRD's direc-

tor of European operations, says the trend is really a by-product of equipment users' continuing search for effi-ciency in increasingly competi-

All rotating machines vibrate, but the way they do so can often indicate that somecan often indicate that some-thing is about to go wrong. This has underpinned IRD's predictive maintenance tech-nology, which aims to anticipate faults that could lead to

expensive shut-downs.

The concept is a sophisticated, objective descendant of the old "threepenny bit" test using a coin placed on its edge to check vibration. Early electronic sensors began an industry which has now gone through several generations of software, and IRD, a US company owned by Dobson Park Industries of the UK, has grown to \$45m of annual sales.

The environmental spin-off for IRD has come in a number of ways. Predictive maintenance in industries such as power generation, pulp and paper manufacturing and pet-rochemical processing could forestall a machine failure which causes the release of oil and a potential environmental hazard. At the same time, vibration technology is an end in itself because it provides an objective test of excessive se levels.

The environmental effect allows Lumsden to claim that IRD is "green, successful and northern" - a rare combina-tion, especially in a recession.

Andrew Baxter

ematech, the US gov-ernment-supported semiconductor industry consortium, is prepar ing long-range plans beyond its original five-year charter. The industry group is expected to seek additional federal funding and to set ambitious new technology goals.

As Sematech lays plans for the future, however, industry members and the US government are assessing its accomplishments to date.

Since its formation in 1987 Sematech has been controversial. The industry consortium represents a radical experi-ment in US industrial collaboration and raises serious ques tions about the proper role of government in commercial search and development.

Collaboration did not come naturally to US semiconductor manufacturers. The industry's culture is deeply rooted in the entrepreneurial, go-it-alone spirit of Silicon Valley.

It also went against the grain for US chip makers to

seek government support. The same industry executives who lobbied for Sematech in 1987 had told a Congressional panel five years earlier that the government should maintain an "arm's-length" relationship

with the chip industry.

Yet Sematech, a consortium of 14 leading US chip makers which gets half of its annual \$200m (£114m) funding from the US Defence Department's Advanced Research Projects Agency, stands as evidence of the radical changes that have been forced upon this industry

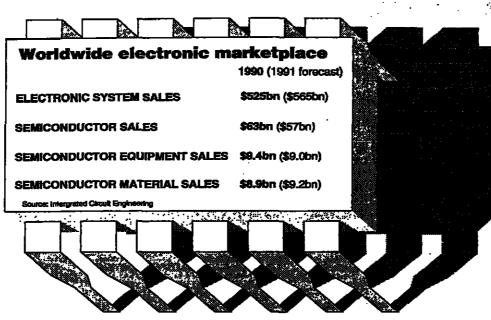
Faced with mounting competition from Japan, which many saw as a threat of extinction. the top US chip makers banded together to develop advanced chip production processes which they hoped would enable the US semiconductor industry to regain world-leadership in chip manufacturing

Over the past three years Sematech has modified its mission. While it originally set out to build a world-beating prototype semiconductor production plant, the consortium now aims "to provide the US semiconductor industry with the domestic capability for world leadership in manufacturing". The switch of emphasis is

significant. Since 1989 Sema-tech has focused much of its attention, and budget, upon supporting US chip production equipment companies that make tools for chip manufac-turing through joint technology development projects. Sematech has built the Sematech's role in the US semiconductor industry is again under scrutiny, writes Louise Kehoe dent of Intel. This is Intel's primary reason for membership of Sematech, he says.

"I am more optimistic about

Loyal fans but mixed reviews



world class semiconductor fabrication facility" that it promised, but this serves largely as a laboratory for test-ing new equipment – and as a showcase for visiting digni-taries. This week Prince Philip will have the opportunity to marvel at the gadgetry that makes the chips that power the computers that make the busi-

ness world turn around.

Prince Philip's tour guides have plenty of experience. They commonly explain to vis-iting congressmen and members of President Bush's administration the vital role that semiconductor production tools play in building the foundation of the \$565bn world elec-

tronics industry.

Washington visitors also bear about the decline of the US semiconductor equipment industry, which dominated the world market 10 years ago but is now struggling against intense Japanese competition. While Sematech's research

and development programme is "on track and on time" according to a government review conducted last year, "the consortium's main benefits to

Americans are indirect. They include the economic and national security benefits that come from limiting the poten-tial for cartels in world memory chip production and in key segments of the semiconductor manufacturing equipment and materials industry and the benefits likely to come from the continued operation of

'Sematech could meet its objectives and still not restore **US** semiconductor manufacturing leadership'

commercially vigorous USbased manufacturing firms ready and able to exploit emerging technologies", the panel, chaired by John Betti, under secretary of defence for

chairman of Sematech. We believe that it is imporis that enough? Critics among non-member semicon-ductor companies say that the tant for the US to have a viahie, competitive process equip-ment industry," says Craig Barrett, executive vice presiconsortium is little more than a federal subsidy for a select

few chip makers that will do

nothing to solve the industry's problems. But they offer few

alternative proposals.
Among its members, Sema-

tech's most important contri-

bution is seen in terms of improved relationships between US chip makers and US manufacturers of semicon-

ductor production equipment

that enable them to jointly

develop more advanced and

Sematech has created an environment in which chip-makers work closely with

equipment manufacturers to test new equipment and will-ingly share the results of these

efforts with other members of the consortium. "It would have been unheard of for intel engi-

about a new piece of equip-ment, but today it is common-place." says Charles Sporck, president of National Semicon-

ductor and until recently the

ers to come over and talk

reliable production tools.

"The semiconductor industry is entering an era where no single company has the financial resources to develop all the manufacturing processes and equipment, and build the factories needed to process chips at the end of the decade." the committee said in an interim report.

Now the NACS faces the dif-

the goals that Sematech origi-nally set out to achieve.

Either approach would inevi-

Sematech's most significant contribution to the future of the US semiconductor industry may have been to lay the groundwork for more ambitious collaborative projects in

The world tries to catch Fanuc

By Andrew Baxter

arket shares of 50 per cent or more have often proved to be a dangerous prelude to compla-cency in western manufactur-ing companies – stifling technological innovation and encouraging an unhealthy atti-tude to long-term product development.

Fanuc, the world's largest

automation joint venture with General Electric of the US, has

more than 50 per cent of the US market for CNC units (which use numerical com-

mands to control the actions of machine tools such as drilling

and cutting).
The past 20 years have seen a constant search at Fanuc for

controls that can give machine

tools greater speed and accuracy, with Seinemon Inaba, the

company's founder and president, continuing to provide

inspiration for 600 research

and development staff - a third of the workforce.

In the circumstances it is hard for Fanuc to let up on the pace of development. In spite of its dominant position, estimated at more than 50 per cent

of the CNC market worldwide, there are still technical chal-

lenges to overcome. This was emphasised last

week in a co-ordinated world-

wide announcement by GE Fanuc, a four-year old joint

venture which operates in most of the world and com-bines GE's programmable con-

trollers and factory automation software with Fanuc's CNC, motors and drives.

Two new developments - a low-cost computer control and

the application of reduced instruction set computing (Risc) processors on its top-of-

duction equipment. In both-sectors US companies continue to lose ground. "Sematech could meet all of These days, however, the few companies that can genuinely claim such worldwide dominance are unlikely to be sitting objectives and still not restore US semiconductor manufactur on their laurels, especially if they are Japanese. Many have reached that position by step-ping on to a treadmill where ing leadership," the federal review panel concluded Sema-tech is not enough, industry executives acknowledge. new products increase market share, add to pressure on com-petitors and finance the search for further innovation.

A new proposal, aimed at establishing US leadership in semiconductor production technology by the year 2000, was mosted last week by the National Advisory Committee on Semiconductors (NACS). producer of computer numerical control (CNC) units for machine tools, is a case in point. The Japanese company has about 70 per cent of its domestic market, and GE Fanuc Automation, its factory

the outlook for the US equipment industry than I was a couple of years ago," said Barrett. "They have made great

strides in quality and the com-

munications between the

equipment and semiconductor

producers have improved." Sematech has played a major role in this effort, he said.

Yet Sematech has not suc

ceeded in stemming the tide of Japanese competition in the semiconductor market, or the

market for semiconductor pro-

The semiconductor industry

ficult problem of shaping a solution. In doing so it may recommend an expansion of Sematech's role. Alternatively, the NACS may seek the forma-tion of another consortium that will more directly address

tably involve government fund-ing and renewed debate over the relationship between government and commercial technology.

the future.
US chipmakers are now far

more willing to co-operate among themselves and even the Bush administration's staunch supporters of hands-off, laisser-faire industrial policy have come to recognise that government support for semiconductor technology development holds potential benefits for the entire US industrial base.



TECHNICALLY SPEAKING

the-range control system will add to the pressure on GE. Fanuc's rivals to compete technologically.

GE Fanuc hopes the new products will further a key aim of increasing its European market share. Siemens atill

market share. Stemens still retains leadership of the European market for CNC units, but is being pressed hard by the US/Japanese venture.

According to a study of the EC machine tool sector last year by W.S. Atkins, the UK management consultants, European companies have European companies have worked hard over the past decade to catch up with the Japanese in the electronic capability of machine tools. But generally, it says, Fanne,

and to a lesser extent Mitsubi shi, have been able to retain their technological advantage due to economies of scale, being further down "the expe-rience curve" and high levels of investment in R&D.

That advantage could now be extended. GE Fanuc is claiming a world first for the application of a 64-bit Risc processor as an option on its Series 15 machines. Faster exe cution of instructions and greater sophistication will eliminate "servo lag", the dif-ference between the commanded and the actual path of the tool through the work. The Series 18 is for simpler

applications, such as control-ling robots that load and unload lathes. It completes a family of GE Fanue controls and has a narrow-profile dis-play unit which, says Avtell, is far beyond anything that's around at the moment."

Competitors will be able to make their own minds up about that next month in Paris when the Series 18 makes its debut at the 9th EMO machine



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GREECE

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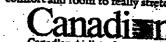
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MAN IS TABLE VIEW

THE GOOD LUCK House of Lords (Lord Bridge of Harwich, Lord Brandon of Oakbrook, Lord Oliver of Aylmerton, Lord Goff of Chieveley and Lord Lowry): May 16 1991

A SHIP'S entry into a prohibited war zone in breach of warranty under its insurance contract automatically brings the contract to an end so that the insurance cover ceases, Accordingly, where the insur-Accordingly, where the insur-ers warrant to mortgagees that they will advise them promptly if cover ceases, they must do so as soon as they know of the prohibited entry, and do not have an aution to and do not have an option to wait until they have decided to reject the shipowner's claim for loss in the war zone.

> The House of Lords so held when allowing an appeal by the plaintiff, the Bank of Nova Scotia, from a Court of Appeal judgment reversing Mr Justice Hobhouse's decision that the defendant club, the Hellenic Mutual War Risk Association damages for breach of warranty.

LORD GOFF said that the club was a shipowners' mutual insurance association. It provided protection to Greek shipowers against war risks. It was based in Bermuda and its managers were Thomas R Miller & Son (Bermuda) Ltd.

The insurance provided by the club was governed by its Rules. Rule 20 gave directors power to specify certain places as additional premium areas. If a ship proceeded to such an area the owner continued to be insured, but was bound to pay an additional premium. During the relevant period the most important additional premium area was the Arabian Gulf.

Rule 25 gave the directors power to prohibit members from going to any "port, place, country, zone or area". Rule 25c provided that "every insurance...shall contain a warranty by the owner that all...prohibitions...shall be acted upon".
Prohibited zones were zones

of such extreme danger that it was not considered acceptable that vessels should be covered

at all In September 1980 the club declared the Shatt Al Arab and Khor Musa a prohibited zone, and the approaches to those places at the Northern end of the Gulf which were directly

FT LAW REPORTS

Bank succeeds on war zone claim

Among club members in 1980
was the Good Faith group. In
1980 and 1981 its reputation was very good. At the end of 1981 it had 38 vessels. Money had been advanced to the group by various banks. The

largest advances had been made by the plaintiff bank. The primary security con-sisted of mortgages on the ves-sels, under which the borrower was left in possession so long as he did not default. He under took to insure the vessels, and the insurances were assigned to the bank. In addition the bank took out a mortgagee's

The borrower having exe-cuted a specific assignment of the insurances on the vessel, the bank then gave notice of assignment to the insurer. A loss payable clause was endorsed on the relevant insur-ance document, and a letter of undertaking was given by the insurer to the bank.

affected by hostilities between

With regard to the Good Luck, the club, by the letter of undertaking, confirmed that the Good Luck was "entered in this association in accordance with the rules for war risk insurance", and undertook to hold the war risks policy to the bank's order.

By paragraph 3 of the letter it undertook "to advise you promptly if the association ceases to insure as aforesaid".

The Good Faith group was in the practice of chartering ves-sels to Iranian charterers and sending them into the Gulf.

Those voyages took the vessels into the additional premium area and, when they went into Bandar Khomeini, into the probibited area.
Good Faith did this without

notifying the club and without informing the bank. Millers discovered what was going on in the autumn of 1981. Neither the club nor Millers

informed the bank. In April 1982 Good Faith started to renegotiate its loans with the bank. The bank was aware that mortgaged vessels were trading into the Gulf, but was not aware that they were doing so uninsured. It did not check the position with the

club or Millers. On April 7 1982 Good Faith chartered Good Luck to Ira-nian charterers. On June 6, while proceeding up the Khor Musa to Bandar Khomeinel, she was hit by an Iraqi missile and was ultimately declared a total loss.

The state of the s

Good Faith made a fraudulent claim on the club, pretending it had given advance declaration of entry into the additional premium area and that it was ignorant of prohibited areas.

Millers were aware of the probability of fraud and that because the vessel was in a prohibited zone, the club would not be legally liable to meet the claim.

The bank completed renegotiating the refinancing agree-ment, and in the second half of July it permitted Good Faith to draw down an additional \$2.6m for working capital. On August 4 the club rejected Good Faith's claim for

indemnity in respect of Good Luck, on the grounds that she was in a prohibited area, and was in an additional premium area without prior notification.
At no time before August 5
1982 did Millers or the club dis-close to the bank what they knew about the defects in the claim made on the club, or any other aspect of Good Faith's

The bank claimed damage from the club for, inter alia, breach of the letter of undertaking. Mr Justice Hobhouse held the chub liable in dam-ages. The Court of Appeal reversed his decision. The bank now appealed.

Mr Justice Hobbouse concluded that the strong proba-bility was that if the bank had been told by Millers that at the time of the casualty Good Luck was in a prohibited area and was not covered for war risks, the whole matter of including her in the security would have been handled differently. He was satisfied that the

strong probability was that any value attached to Good Luck would have been put on one side until the situation had been clarified, and that no draw down in respect of working capital would have been

The judge considered that a wide and businesslike interpretation should be given to paragraph 3 of the letter of under-taking, the purpose of which was to enable the bank fully to protect its rights and security, including evaluation of its security for the past and the

He held that entry into a prohibited zone contrary to rule 25 required the club to notify the bank under paragraph 3 of the letter of under-taking. Once a vessel entered into a prohibited zone she was.

in ordinary business terminology and in truth, uninsured, and accordingly the club had ceased to insure her within the meaning of paragraph 8.

The Court of Appeal did not agree that entry into a prohibited zone, though breach of warranty under rule 25c, had the automatic effect of bringing the insurance contract to an end. They said the breach entitled the club to treat the contract as at an end if it chose, and that it did not cease to insure the ship until had decided whether it would treat the breach as bringing the con-

They supported that reasoning by analysis of section 33 of the Marine Insurance Act 1906.
Their analysis was not correct. Section 33(3) provided that a promissory warranty, by which

the assured undertook that some particular thing should be done, was "a condition which must be complied with . . . If it be not so complied with then, subject to any express provision in the policy, the insurer is discharged from liability as from the date of the

The words were clear. They showed that discharge of the insurer from liability was automatic, and was not dependent on any decision by the insurer insurance as at an end.

Mr Justice Hobhouse's approach was consistent with the plain meaning of section 33(3). The insurer, as the Act provided, was discharged from liability as from the date of the breach, so that he thereupon had a good defence to a claim by the assured.
As to his construction of

paragraph 3 the judge's reason-ing and conclusion were cor-rect. Once a vessel entered into a prohibited area she was, in ordinary business terminology and in truth, uninsured and so the club had ceased to insure her within the meaning or paragraph 3. Once the Court of Appeal's construction of section 33 of the Act was rejected there was no answer to his

approach.

The appeal was allowed. For the bank: Jonathan Mance QC, Julian Flaux and Stephen Kenny (Constant & Constant) For the club: Stewart Boyd

QC, Jonathan Gilman QC and David Bailey (Herbert Smith). Rachel Davies

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LEGAL NOTICES

NOTICE OF MEETING OF CREDITORS ALPHAS SIRIUS LIMITED

NOTICE IS HEREBY GIVEN purguent to Sec-NOTICE IS HEREBY CIVEN pursuant to Section 98 of the Insolvency Act 1986, that a mosting of the Creditors of the above named Company will be held at The National Motor-cycle Maneum, Covertry Fload, Bickachilli, Solikuli, West Midlands, 882 053 on the 30th day of May 1991 at 11.30 o'ciock in the forenoon, for the purposes mentioned in Sections 99, 100 and 101 of the said Act. A list of the names and addresses of the Company's creditors will be available for irapection, free of charge, on the two business days falling next before the Meeting, at Centre City Tower, 7 His Street, Birmingham 85 4UU.

Dated this 13th day of May 1991 BY ORDER OF THE BOARD

C N CROUCH

LIMITED T/A HYPERION TRAVEL

Notice is hereby given, pursuant to Section 38 of the Imagivancy Act 1988, that a Meeting of Craditors of the above named company will be held at 3rd Floor South, Termyson House, 169-163 Great Portland Street, London Will Str., 1991 at 12 noon, for the purposes mentioned in Sections 39, 100 and 101 of the said Act, A flat of names and addresses of the company's creditors will be available for inspection, free of charge, at the address of the meeting as above on the two business days before the date of the meeting.

Deted this 10th day of May 1991. By order of The Board. K.F. Hornby (Mrs), Director.

MCT REALISATIONS LIMITED (IN RECEIVERSHIP) (FORMERLY MONARCH CARS (TAMWORTH) LIMITED)

recirice is HEREBY GIVEN, pursuent to the insolvency Act 1985, that a MEETING of the CREDITORS of the above named company will be held at 43 Temple Row, Birmingham on 5 June 1991 at 11.00 atn for the purposes of having taid before it the report prepared by the Administrative Receiver in accor-dance with the said section and, if thought it, appointing a Committee.

Creditors whose claims are wholly secured are not entitled to attend or vote at the meeting. Creditors who are partly secured may only vote in respect of the belance of the amount due to them after deducting the value of the sacurity, as estimated by them A creditor in respect of a debt due on, or secured by, a bill of exchange or promisory mote must breat the liability of any person who is liable on the bill antecondently to the company as a security held by him (unless that other person is subject to a bankruptcy order or in liquidation)

Creditors wishing to vote at the meeting must lodge a written statement of their claims with me at Cork Guity, 43 Temple Row, Birmingham, 82 537 no later than 12 noon on 4 June 1991. Forms of prays which, if intended to be used must also be lodged.

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COMPAGNIE DE SAINT-GOBAIN

Public Company with a capital of F 6.522,662.500. Registered Office : "Les Miroirs" 18, Avenue d'Alsace

92400 COURBEVOIE R C S NANTERRE B 542 039 532 PARTICIPATING STOCK APRIL 1984 OF ECU 1000 EACH

As the general Meeting provided on May of ECU 1.000 issued in April 1984 by SAINT-GOBAIN, could not deliberate missing the quorum, the participat stock owners are again convened by the board of directors in general Meeting at May 29, 1991, at 11:30 at the register office of the Company, "Lee Mirchs" 18 Avenue d'Alsace in COURSEVOIE (\$2400). This meeting will enact on the

BOARD OF DIRECTORS' REPORT ON THE COMPANY'S OPERATIONS FOR

FINANCIAL YEAR 1990, AUDITORS' REPORT ON FINANCIAL YEAR 1990 ACCOUNTS AND

ELEMENTS FOR FIXING THE PARTICIPATING STOCK YIELD, - FIXING THE INCOME OF THE MASSE FUTITLED REPRESENTATIVES.

- POWERS FOR FORMALITIES To attend the meeting the participation stock courses will have to provide a blockin afficient lasted by the trustee and in orde

to appoint a deputy at the meeting they will have to add a proxy to this allidavit. The deposit effected and the power sent for

the meeting of May 15, 1991 still available for the hereby mentioned meeting. THE BOARD OF DIRECTORS

YARDMYTH LIMITED IN RECEIVERSHIP

NOTICE IS HEREBY GIVEN, pursuant to Sec not like to retriet virtue, pursuant to sec-tion 48 of the Insolvency Act 1986, that a ARESTING of the CREDITORS of the above remed company will be held at 43 Temple How, Birmingham on 5 June 1931 at 10:30 am for the purposes of hering laid before if the report prepared by the administrative Receiver in accordance with the said section was the temple of the present the section and the said section.

Creditors whose claims are wholly secured are not entated to attend or sole at the meeting Creditors who are purify secured may only vote in respect of the balance of the amount due to them after deducting the value of the security, as estimated by them. A creditor in respect of a debt due on, or secured by, a olfi of exchange or promissory note must treat the Vability of any person who is liable on the bill arriccationity to the company as a security hold by him junises that other person is subject to a bankruptcy order or in liquidation!

Creditora wishing to vote at the meeting must lodge a written stalement of their claims with me at Cork Gully, 43 Temple Rose, Birmingham, 82 5/T no later than 12 noon on 4 June 1891. Forms of proxy which, if intended to be used, inust also be lodged intended to be used, must also be lodged with us by their time.

DATED this 15 day of May 1991

J. F. Powell

PERSONAL

AUTHORS Your book published. Details Excelled Press of London, 13 Knights bridge Green, London, SW1X 7QL

003838 of 1981 IN THE HIGH COURT OF JUSTICE

CHANCERY DIVISION WA. JUSTICE MERVYN DAVIES IN THE MATTER OF STRONG & FISHER (HOLDINGS) PLC

IN THE MATTER OF THE COMPANIES ACT ARVERTISEMENT

NOTICE IS HEREBY CAVEN that the Order of The High Court of Justice, Chancery Division dated the 13th May 1881 continuing the reduction of the authorised ordinary share capital of the Company Iram 155.945,000 to CAPITAL OF the COMPANY MANUAL PROPERTY OF THE CAPITAL amount of 12,330,004 \$1 standing to the amount of 12,330,004 \$1 standing to the credit of the share premium account of Ric Company and the minute approved by the Court showing with respect to the share capital of the Company as aftered the several particulars required by the above act were regulatered by the Registers of Companies on the 16th May 1991.

Dated the 17 day of May 1991.

Staughter and May, (RLH) 35 Basinghati Street, London EG2V 5DB

Solicitors for the sald Company

COMPANY NOTICES

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Holders of Share Warrants to Source are informed that they will receive payment of the dividend for 1930 of 32.5p per share on and after 21st May, 1981 upon presentation of the Share Warrant, together with a tre share warrant, togorer win a statement of their name and address, at the office of the Bank, Banksade House, 107-112, Leadenhall Street. London ECSA 4AE. Share Warrants much be left at the Bank for three clear days.

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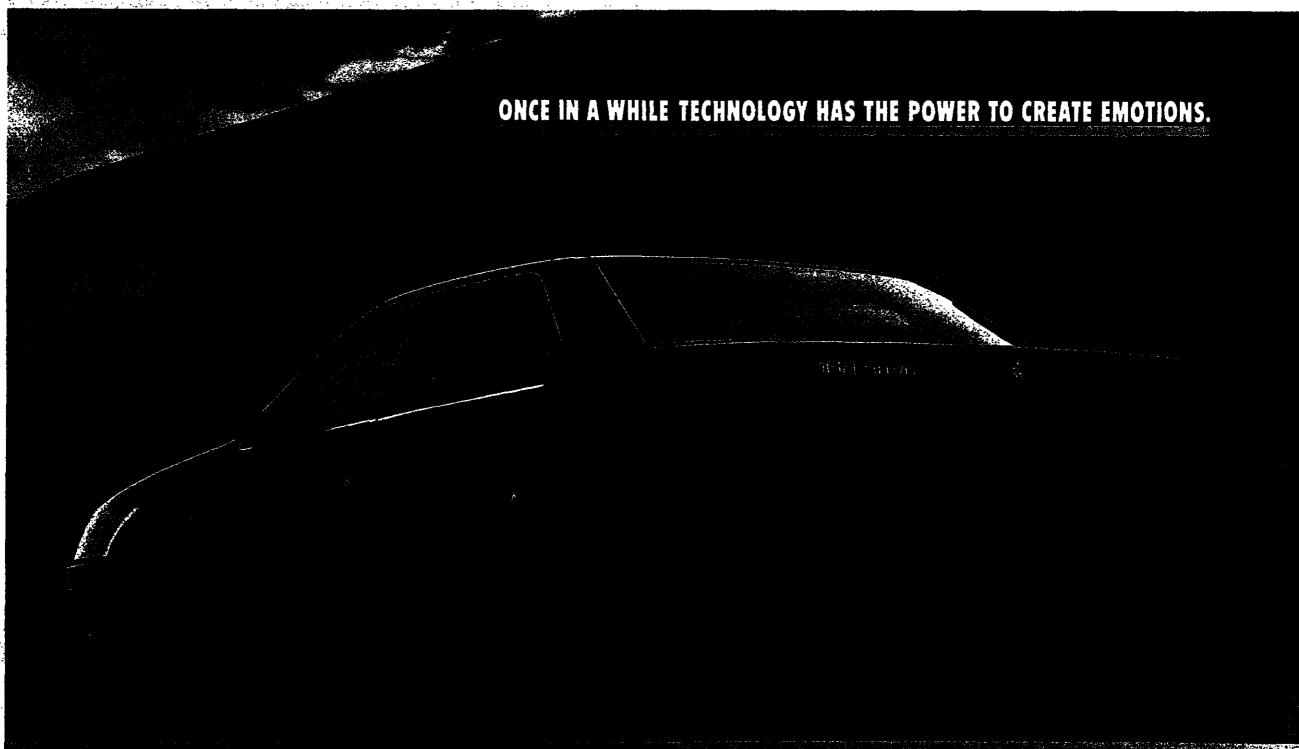
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per cylinder engines, and the exceptional

In search of successful succession

By Charles Batchelor

A SIZEABLE family-owned dressmaking business flourished under its dynamic founder but was forced into liquidation when he failed to look for a successor in time. Because his own children were too young to take on the busiss, the founder brought in his nephew, a barrister.

The founder died shortly afterwards and the nephew soon found himself out of his depth. He resisted family pres-sure to sell because he would not have benefited and several years later took the company into involuntary liquidation.

This example of one of the

key problems facing the nily-owned business is cited by Peter Leach, a partner of accountants Stoy Hayward, in a new study* of the subject. Clinging to family control is not always to the advantage of the business which may in the long-term benefit from bring-

ing in professional managers.
As Leach's book makes clear, understanding the problems of the family business requires psychological insights as much as commercial expertise. The business may bring the family closer together but it can also serve as a catalyst for its destruction.

For example, a father may consciously want to ease his son's entry into the business while subconsciously proving unable to relinquish control of his greatest source of personal fulfilment. The son, for his part, needs to establish his independence but is made to feel that his own future prospects and the debt he owes to his father require him to go along with his father's wishes.

A first step towards manag-ing this problem is for the family to realise that this is not a conflict which is unique to them but that these basic rival-ries affect most of the human erations may be catered for by establishing a division or a new subsidiary over which the

son has autonomy. Serious conflicts may require a neutral third party to be called in. He should listen to both sides, preside over a dis-cussion between father and son and then help draw up a plan

to resolve the dispute.
*The Family Business. Published by Kogan Page. 186 it in the offices of a

handful of small com-panies in Wales and you will be struck by the number of plaques and tro-phies on display. Closer inspec-tion of the contents of the gilt frames reveals a common feature. All have been awarded for good performance by one of the growing number of Japanese companies to set up in the

Hugh Smith, director of the packaging and mouldings activities of Otford Group, based at Abercarn, near Newport, boasts a particularly impressive collection from companies such as Sony, Sharp and NEC

Looking to diversify out of its original business of manufacturing expanded poly-styrene packaging, Otford has in the space of just three years created a £10m-turnover division supplying moulded plastic television cabinets to Sony and

The commemorative plaques and the contracts which underpin them are signs of the grow-ing role which Japanese manufacturers are playing in the UK and the South Wales economy. They also demonstrate that small and medium-sized busi-nesses can meet the tough conditions which the Japanese expect of their suppliers.*

Japanese customers account

for no less than 70 per cent of the £17m turnover of Otford's South Wales manufacturing operations. Offord, a privately owned company, employs 250 people in manufacturing. "In 1980 the packaging busi-

ness was on the brink of disaster," recalls Smith. "We needed business and the Japanese were there. Something told me they had a long-term future."

After a slow start, business picked up sharply following a visit from one of the Japanese company's engineers, Smith explains. The engineer was apparently impressed by the investment that Offord had made in new machinery. "They saw that as a sign of vision he says. "They look at the atti-tudes of management."

The Japanese may start from this impressionistic approach to suppliers but they then go on to a detailed review of the business and a painstaking assessment of product and pro-duction quality. Meirion as, an executive director of the Welsh Development Agency, estimates that, unfortunately, just 10 per cent of the 6.000 small and medium-sized companies in Wales are capable of meeting the quality stan-dards demanded by Japanese or other large multinationals.

Supplying the Japanese

Painstaking assessment of production quality

Charles Batchelor on a close but informal relationship



Ken Yaughan: 'They tell you which way they are going. It gives you confidence'

Alongside its long-running campaign to attract overseas companies to Wales, the agency is now devoting effort to helping local companies improve standards so that they can become suppliers to the

incomers. "Second and third-tier Japanese companies are now looking to locate here," says Thomas. "Some of them are already suppliers to the large companies or are part of the same group. If Welsh compa-nies don't get their act together quickly the Japanese will bring in their own suppli-

Individual Japanese compa-nies differ in their approach depending on their own corporate culture and the length of time they have been based in the UK but there are sufficient similarities to draw lessons for smaller UK companies attempting to become suppliers.

Close attention to detail often goes hand in hand with a startling degree of informality. UK companies frequently find that they have committed themselves to substantial investments on the basis of verbal promises of business to come their way. Otford invested £1.5m in

plastic moulding equipment with no written guarantee of

orders from Sony.
Once a supplier has established a reputation with a Japanese customer, though, the Japanese are prepared to reveal their budgets and plans to allow the supplier to plan his production schedules. Ken Vaughan (pictured), managing director of A McLay & Co, a Condiff hased printer of other companies are Cardiff-based printer of instruction manuals for Sony, blanked out).

production plans. When you build up trust they will give you information on, for example, how many components they will be manufacturing over the next year," says Vaughan. "They tell you which way they are going. It gives you confidence."

gets advance warning of Sony's

But before a supplier can achieve this degree of close-ness with his customer he must satisfy him that he can meet exacting quality stan-dards. McLay, which employs 89 people and makes sales of £am, is required to achieve a target of fewer than 50 "faulty" manuals per million.

One recent monthly quality report which came back showed he had reached 114 faults. "We got our knuckles rapped," says Vaughan. The faulty manual will be returned so that McLay can remedy the problem. They

don't just demand quality; they give us the tools to do some-thing about it," says Vaughan. The regular reports from Sony give McLay an overall rating out of 13 and provide a league table to show how the company compares with other suppliers (though the names of

The Japanese work to their own quality programme, frequently described as "zero defects" and show no interest in BS5750, the main UK quality standard. "We have BS5750 but the Japanese don't recognise it," says Les Porter, sales manager of Harlow Pressings, a Cwmbran-based company with 38 employees and £1.6m of

But quality involves not just meeting demanding standards for the components supplied, it also requires the supplier to meet precise just in time delivery schedules. Otford, for example, makes four daily deliveries to Sony.

As Japanese manufacturers have increased the production volumes of their UK factories the timing of deliveries has become even more important and places even tougher demands on their suppliers. Radun Controls, a Cardiffbased supplier of TV remote

control units with \$1.3m of In brief... sales, currently works to a three-to-five day delivery cycle

but expects to move to a 24-hour cycle eventually. One result of these close links between supplier and customer is that it becomes difficult, particularly for a small company, to work for more than one or two customers. "They are so demanding; there would inevitably be a conflict of interest in a company of our size, says McLay's Ken Vaughan. "There would be an extra order and you would have to let someone down."

And while there are advantages for the small company in working so closely with a large customer — Radun has received help with training and in sorting out production prob-lems while Otford was assisted by Sony to develop its plastic moulding technology - there are also potential disadvan-

"You sometimes feel they make so many demands that it is cetting too much," says one Use manager. "We are in dan-ger of being swallowed up. They sometimes forget that you are not part of their com-

"Too much dependence is

dangerous," warn Peter Good-all and Max Munday of Cardiff Business School. Despite the generally good record of Japanese companies in treating their UK suppliers, the academics point out that it is not unknown for large companies to exploit their dominance of small suppliers. A particular worty for the Welsh is that the Japanese might decide to move their operations closer to the heart of the European market. Another development which Another development which is starting to concern some people is the request by some Japanese companies for detailed accounting information to enable them to isolate and, where possible, reduce

manufacturing costs. "We have been asked for this information," says Harlow Pressings' Les Porter. "Some companies give all the information and suffer. We provide a limited break-down at our discretion. In the main, though, the small suppliers welcome being treated as partners by the Jap-anese. The sense of unease that some small companies feel may reflect their past experience of adversarial supplier-customer relationships rather than the present reality. For the moment at least there are many suppliers who are only too happy with the commemorative plaques which adorn their desks.

*See this page, May 17.

■ Stung by criticisms that they do not understand their small business customers, the banks have been beefing up the training they provide their

managers.
The latest bank to improve training is National Westminster which has linked up with Durham University Business School (DUBS).

DUBS will provide five day residential courses to nearly 200 NatWest managers this year with emphasis on managers from branches with a high concentration of small firms.

The course will concentrate on the non-financial aspects of a small business including the character of the entrepreneur and the business's overall aims and objectives.

More young people are wanting to run their own business, to judge by the level of applications to take part in Livewire, a privately-sponsored programme which provides advice to 16-25 year olds who

self-employment. Livewire sent out business planning packs to more than 5,000 people in 1990, an increase of 45 per cent on the year before, while the start-up awards scheme considered 750 business plans from more than 900 people who were considering going into business or whose business had been going for less than one year. Livewire sent out business

one year. More than 300 entrants shared in £150,000 worth of prizes at a local, regional or

prizes at a local, regarded of national level.
Ominously, the number of applicants who were unemployed increased for the first time in four years. The proportion of manufacturing business-based ideas fell from 18 to 15 per cent while retail ness proposals rose from 20 to 23 per cent. Service sector businesses accounted for 62 per cent of ideas. Contact Livesoire, 60 Grainger Street, Newcostle upon Tyne, NEI 5JG. Tel 091-261 5584.

Companies which need frequent reports on the financial health of other businesses usually sign a subscription agrees one of the many business information and credit reference organisations. But for the company which only needs the occasional report Dun & Bradstreet

International has launched a one-off service called

Reportible. Reports on individual UK companies cost £47. Most continental European reports are priced at £70 while North are priced as 2.70 while North American reports cost 590, Contact Ray Alabaster, Dan & Bradstreet, Holmers Farm Way, High Wycombe, Bucks HP12 474.1. Tel 0494 422003

MA compendium of government successes in reducing red tape would, in the view of many businesses and women, be only a slim volume. The seeming inexorable growth in the amount of regulation governing business appears to mock official attempts to Contain a

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State Bearing the

reduce red tape. Undaunted, the Department of Trade and Industry, has produced a 28-page booklet* listing some of its recent successes in cutting back bureaucracy.
They range from the simplification of VAT

procedures for imports to the introduction of competition and the reduction of costs
 to the vetting of National Health Service suppliers.

More important than past successes is a list of contact numbers of the deregulation sections in 16 government departments, including the

Inland Revenue and Cu and Excise. If your business plans are being held back by government requirements the take up the matter with the

department concerned, the department conterned, the DTI urges. Cutting Red Tape For Business. Available from DTI, Deregulation Unit, 1-19 Victoria Street, London SW1H 0ET. Tel 071-215 4578/4587. Free.

I Jim Wallace, MP for Orkney and Shetland and Liberal Democratic spokesman on small businesses, has been named politician of the year in a small business awards scheme, the Guildhall Helping

campaigning activities. Winner of the special award for services to small business was Christie Webber of CD Consultants. Webber launched and runs the women's enterprise centre of West Glamorgan Enterprise Trust: The awards are made by the National Federation of Self Employed and Small Businesses and Tollit & Harvey, a stationery

Hands Awards, for his

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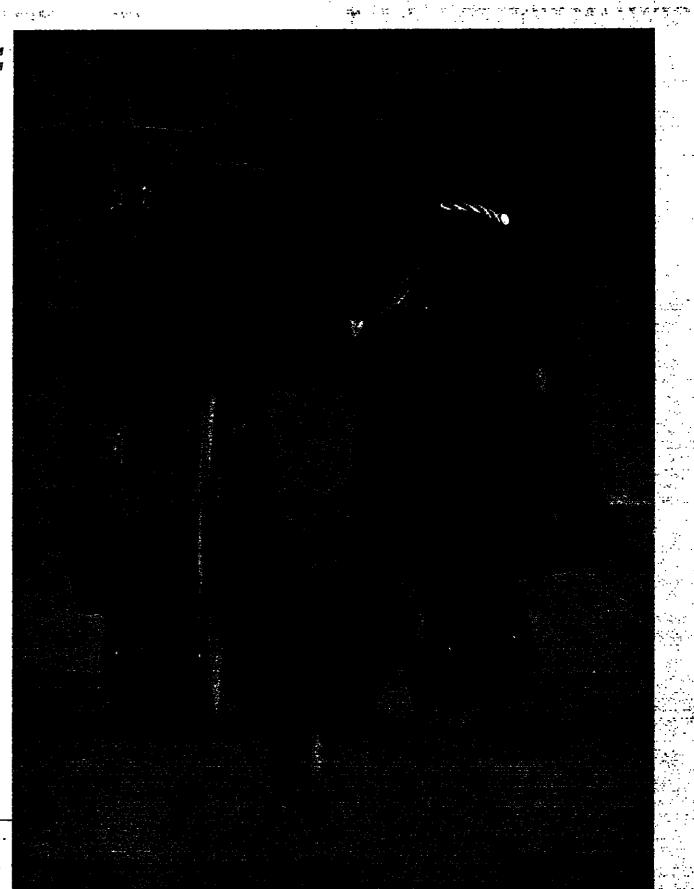
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Knobs & Knockers...

The Joint Administrative Receivers, N. R. Lyle and D. L. Morgan

invite offers for the business and assets of this long established

☐ Quality ranges of home accessories, typically made of brass.

☐ Well equipped office and warehouse accommodation comprising

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(In Creditors' Voluntary Liquidation)

The Joint Liquidators, J.K.R. Jones and A.M. Menzies invite tenders for the assets of the

machining centres division, formerly known as Wadkin Machining Centres.

Tender documents (including conditions of the tender offer) can be obtained

from Andrew Menzies or Ken Jones

ROBSON RHODES

Centre City Tower, 7 Hill Street, Birmingham B5 4UU Telephone: 021-643 1936. Fox: 021-643 4993

Machine drawings and relevant interface logic software.

9 concessions within department stores.

☐ Trained and experienced workforce.

Tel: 071 936 3000. Fax: 071 480 6881.

Paul Wills at the address below.

□ Well established nationwide presence.

☐ Annual turnover of £7.5m.

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The assets for sale comprise:- 116 machining centres in work in progress.

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COMPANY

A well established business supplying the professional, industrial and defence markets. The company both

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£1.2 million Turnover

Excellent staff includes Manageress and

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Reason for sale owner retirement.

Price £120,000 Write Box No: H8624 Financial Times, One

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This company, based in the South of England since 1972, is no longer a

good fit in the Group, mainly due to alze and product range. It would be very useful to an existing industrial flavour and essence business as an ideal bolt-

on. The sale includes the long-standing customer list with good record of

and maintains a gross margin in excess of 50%.

Stock at cost, equipment together with formulae and custo

cords. This business has an annual turnover of approximately £250,000

Principale only need apply.
Write Box No; H9644 Financial Times, One Southwark Bridge,

London SE1 SHL

Box H8611, Financial Times,

One Southwark Bridge, London SE1 9HL.

components. Turnover is in excess of £4 million.

Spares stock.

BUSINESS OPPORTUNITIES

INVESTMENT OPPORTUNITY TO PURCHASE AT APPROXIMATELY 50% BELOW CURRENT MARKET VALUE we nave numereds of elderly homeowners wishing to sell their seturn for a life time rent free tenancy.

This opportunity would interest investor/investors with £1 more to invest. We have hundreds of elderly homeowners wishing to sell their property in

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WANTED - FOR CASH Manufacturer of Aluminium and UPVC windows, patio doors and low rise curtain walling.

Turnover must be in excess of £5m. Write Box H8637 Financial Times, One Southwark Bridge, London SE1 9HL

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Do you wish to sell your electronics manufacturing business? We have a client interested in acquiring a small/medium sized company with design manufacturing capability.

> Fax outline to: 0223 837426 **BUSINESS WANTED**

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MOULDING COMPANY A liquidated or reliring company with 3 to 5 machines, 90 - 200 Ten Lock. Any Machine considered, A in-house product and enstoner base would be beneficial.

Apply For Further Details To: PENN PLASTICS LIMITED, Tweedbank ladustrial Estate, GALASHIELS, TD1 3RS. Tel No: 0896 3458, Fax 0896 2690.

BUSINESS GIFT COMPANY reckt a marketing or manufa pany with relevant products or

Replies to: The Managing Director Immekt Stationers Lad 7/9 Heathmans Road London SW6 4TF

WANTED: Midlands/South Yorks Eng. Co. OWN PRODUCT Turnover £1-2 Million

White In: Box H8640, Financia Times, One Southwark Bridge London SE1 9HL

QUOTED BUSINESS REQUIRED

Location South of England. Cost £10m £20m. Deal by each injection for 29.9% and management courted, or full offer and placing above 29.9%. Principals are superfected businessment with strong landiculous backing. All types of businessment counterland businessment with strong landiculous backing.

Write Box H8638, Financial Times, One Southwark Bridge, LONDON, SEI 9HL

Business Wanted

Precision Engineering Mid Wales Write Box H8626, Financial Times, One Southwark Bridge, London SE1 9HL

WANTED

Courier/Despatch companies. Reply with details to Box No: H8613 Financial Ti London SE1 9HL

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On the instructions of Barclays Property Holdings

boh 220/238 GOLDHAWK ROAD, LONDON W12

Purpose built residential hostel accommodation constructed about 16 years ago for Barclays Bank plc and now surplus to requirements

Suitable for continued bostel use or for hotel or residential development. 175 bedrooms with 279 beds, 5 flats, Bar. Dining room for about 100. ounge for up to 100 and capable of division into three. 2 study rooms. Large games room. Sick bay. Site area about 1.6 acres. Car parking for 28.

OFFERS INVITED SUBJECT TO CONTRACT FOR FAVOURABLE 89 YEAR LEASE AND CONTENTS



HOTEL FOR SALE -LONDON WI

17 Double Bedrooms 190% 17 Double Searcoms 1997s
occupancy for 3 years. Occupied
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£60,000 p.s. Leasehold. Central
Heating. Fire Alarm: Lift. Superior
Condition and excellently run. Sale
price £200,000.00. Will consider £150,000.00 STS

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on so emergency or continuing basis. Specialist advice to the effects of the M.M.C. Report and on the Purchase / Sales / Expansion Planning of Public Houses - Single Units or Groups.

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- 12 Executive Offices all in Santos Rosewood 192 Single and Double Pedestal Light Oak Desks
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- 532 Chairs

-200 6 Screens

Magnificent Leather Seating Reception Area Suite.

Tel: 081 549 9339

SENIOR PARTNERS DESK - ONE ONLY NOSTELL PRIORY Size: 6'10 x 4'2" overall R.R.P. £12,000 Offered at £6,000

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Company Receivership Sale Victorian Light Oak III 6" (contracts to 68 x 48 8") 14R x 4R 6" (contracts to on a Cutck Sale CS750 (tracts val abeling 12 chairs Call 0844 54381



BRITISH TELECOM MONARCH SE440 (VIO) islephone system suffigured: 56 exchange fises, 356 sudosts, with 2 consoles. Configured: 56 exchange fises, 356 successions, with suspension can be about a suffiguration can be about a suffiguration can be about a labitoseance on be arranged offers invited.

White to Box H9578, Financial Times See Southwerk Bridge, Landon SE1 9HL Telephone: 071-371 5889.

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1 IBM Dealership PS2 & RISC 6000 VAR

2 Computer Maintenance company

FOR SALE

Computer maintenance company. Secure ongoing contracts mainly inside M25.

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MERGER, ACQUISITION AND/ OR DISPOSAL Medium sized Manufacturers and Installers of Architectural Aluminium Products with FULL ORDER BOOK interested in expending current operations to cope with excess sales. Anyone interested in possible merger, acquisition and / or disposal of related companies or operations Located in the West Midlands

with freehold premises of 19,000 sq ft and a workforce of 35. Turnover £1,100,000.

Specialist Machine

Tool Manufacturer

For Sale

Associated machine tool service business with annualised turnover £500,000 also for sale.

All interested parties contact: Harris Watson Services Ltd 12 St Paul's Square, Birmingham B3 1RB Tel: 021-233 9700 Fax: 021-233 9707 Principals only

PLUMBING & HEATING MERCHANTS BUSINESS FOR SALE -HERTFOR

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A division of a company for sale as an ongoing concern, as main company expanding in other directions. The division available comprises 15 retail shops selling greetings cards and gifts, locating in Northwest, presently managed by one branch supervisor and overseen by one part-time director. Included are prime position leases. 2 freeholds, fixtures etc and stock in all branches. Very simple but efficient ordering system and control resulting in lowest costs and high gross profit. Overheads are minimal as no warehouse or transport except supervisors car. The whole division can easily be run by a purchaser allocating a small office and one senior manager whom we could train. The deal is for the complete division with no creditors. Project nett profits £240,000. Negotiations on £1,400,000.

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Write Box H8646, Financial Times, One Southwark Bridge, London SE1 9HL

SECURITY PRODUCTS MANUFACTURER

Manufacturer/distributor of small range of unique, established home/personal DIY security products. Substantial buyer could realise huge potential. Turnover £600k, excellent margins. Principals only write Box H8849, Financial Times, One Southwark Bridge, London SE1 9HL

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MAJOR DEALERSHIP PREMISES 12,000 SQ.FT.

SUPERBLY FITTED SHOWROOMS -**WORKSHOPS** ONE ACRE FREEHOLD/LEASEHOLD

KEITH CARDALE GROVES 0825 765066

ELECTRO/MECHANICAL PRODUCTS

Profitable or improfitable Min 4000 sq.ft. for relocati Retain staff/management Acquisition, equity or JV ripals only to Box HB635

I. TREVOR & SONS

On the instructions of the Joint Administrative Receivers of LOWNDES QUEENSWAY GROUP LIMITED PRIME FURNITURE STORES FOR SALE AS GOING CONCERNS OR WITH VACANT POSSESSION

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AVAILABLE AS A GROUP OR INDIVIDUALLY FULL DETAILS, INCLUDING TURNOVER PICURES, AVAILABLE ON REQUEST. RETAILERS OR AGENTS WITH NAMED CLIENTS APPLY TO M R CROSTHWAITE

Property Development Upportunities The Joint LPA Receivers offer for sale as a whole or

individually the following sites:

SPRINGFIELD LANE, CAMBERLEY A development of 7 executive houses on a unique site backing onto Camberley Golf Course. The houses vary from foundation level to just below eaves.

552-570 BATH ROAD, TAPLOW, SLOUGH A development site on the main A4 road between Slough and Maidenhead. This is a greenfield site with detailed planning permission for 36 two bedroom flats and 18 two bedroom houses.

MILL STREET, COLNBROOK, SLOUGH A potential development site. The local planning author have indicated that planning permission can be obtained. For further details please contact the Joint Receiver PR Copp FCA, FCCA, or PD Commins ACA (Ref. PDC) at Stoy Hayward, 8 Baker Street, London W1M 1DA. Tel: 071-486 5888, Fax 071-487 3686.

STOY HAYWARD Howath

unts and Business Advisers — A member of Horwath Internat Authorised by the Institute of Chartered Accountants in England and Wales to carry on investment business

CENTRAL LONDON THE LONDON PARK HOTEL pedroom tourist hotel. F/kold offers invited over £9,000,000 To be sold on the instruction of M Whithall & I Allen of Grant Thorston, Administrators of Wiltrex Ltd.

HOTEL GROUP WANTED s. Cash rich USA company wishes to buy all or part. Contact Michael Pegg, Chahman.

COTSWOLDS HOTELS & INNS 80% Private mortgage available at only 6% interest stere on profits; 13.8% to 16.8%. F/hold £475k to £875k MICHAEL PEGG INTERNATIONAL Tel: 0272 237575 Fax: 0272 237566

SPAIN For direct sale: Well Known Exclusive Hotel near Gibraltar.

46 Bedrooms, superb location adjacent to famous golf courses, large landscaped grounds with further development potential. Contact the Management Co

Tel: (44) 71 872 5665, Fax: (44) 71 730 2477, Tlx 9413485

THREE EXCELLENTLY MAINTAINED REGISTERED NURSING HOMES FOR SALE

approz. Price £3,360,000. Would consider selling ind

Write Box H8636, Financial Times, One Southwark Bridge, LONDON, SEI 9HL

FOR SALE

Small engineering and metal labrication co, operating profitably Soundly structured and expanding in both new & existing markets. Located in South West. Write Box No: H8643 Financial Time

One Southwark Bridge, London SE1 9HL

NATIONAL MULTI-SITE TRAINING COMPANY Major contract with Training and Enterprise Councils and Government Bodies, T/O £2M and profitable. Principals only ploase, write Box H8639, Pinancial Times, One Southwark Bridge, London SEI 9HL

Long Established Haulage Business Profitable Specialist Going Concern, based in the North-West Nationwide Traffic, including for major manufacturer Twelve articulated crane-operated vehicles. Write Bea H&619, Financial Times, One Southwark Bridge, London SE1 981L

PRINT **FINISHERS** FOR SALE

In East London area. Write Box HB641, Financial Times, One Southwark Bridge, LONDON, SE1 9HL Joinery Manufacturer - Yorkshire Consistent turnover of approximately £m., still profitable despite recession, with act surpluses ranging between £35k and £300k over last three years. Purchase price required in cash and/or ple shares is £500k which equates to act current assets. Suitable add on to Yorkshire/Lancashire based operation.

BUSINESS FOR SALE

Financial Times, One Southwark Bridge, LONDON. SEI 9HL

Small specialised machinery manufacturers with established overseas/UK business, located Windsor, wish to dispose of all current machine designs, goodwill, enguiry book etc. Proposed prior £9,5000, Some stock available and 3000 sq.l. premises (Long lease - no premises) if required.

Write or phone in first instance to ref. PES/JM at AGHS.

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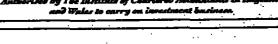
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SEE STATE OF SERVICES

Section Control

Thornton .

SCHAUSPIELHAUS,

Brecht liked to have it both ways and never tired of weddings, traditional rituals just asking for parody white every gram of romance is being squeezed out for theatrical stardust. There are mock-marriages in There are mock-marriages in Drums in the Night, The Good Woman of Seizum and most famously The Threspenny Opera, set in Soho with wedding gifts looted from Salvitiess

weddin Selfrid The one act Respectable

Wedding, written in 1918, predates all these. A young couple celebrate their wedding in a flat whose furniture has been fondly made by the groom. In a series of comic coups, the place gradually falls apart: chairs lose arms and legs, door handles fly off, tables collapse, cupboards refuse to open and get kicked in, the loo floods. In parallel, the superficial harmony between the guests is revealed as a mask for self-interest, lechery and hatred. The one-act Respectable Sen-mon-hatred.

hatred.

Anselm Weber pulls slapstick and psychology together with effortless sleight of hand. The most eligible guest gets a splinter up his burn which gives the bride a chance to touch him up and eventually resource his transcers. Another remove his trousers. Another guest tries to mend the table but instead explores the stockinged legs trapped beneath it. There are state of the cream pudding madly over the cream pudding madly over the cream pudding to drown the cream pudding to drown the d

inanty over the cream punding to drown the din.

Fine character playing dramatises the shoddiness of apparent respectability.

Wolfram Roch is the upright best man croaking sweet nothings in the ear of the bride; Iris Erdman singers as the mother-in-law but turns into a tribal matriage. turns into a tribal matriarch when the going gets tough; Ingrid Schaller's wedding guest is all outraged propriety until her husband tears off her wig and shows the jealous hag behind the volitiesse. This is radical idealism

rerun as social comedy, Brecht played as Ayckbourn though, as Ayckbourn has said of his own work, there's of his own work, there's politics in every line. But there's optimism here as well as a cry for a less hypocritical social order; Brecht's emotional booligans are always lovingly flawed rather than chilling and this fil-matched pair (Alberta Schatz and Michael Lucke) patch things up in the ruins, drunk on the dregs frum left-over glasses as they pant to sleep glasses as they pant to sleep together in a bed still to

Love on a shoestring: romance hanging on by its fingernalis in a material world; tentative anarchy: Brecht wrote the piece before he had read Marx and gave it its sarcastic title (in German "Die (in German "Die Kleinburgerhochzeit") afterwards, it is a rarely performed work; Weber's production is relaxed, crisp in counic detail, varied in musical diversion ("Here comes the bride" to a smoky Latim outtarist), unbest while never guitarist), upbeat while never letting slip the brittle nostalgia of the best early

ing the state of the

CHOI STUMB

ARTEST REPORT

Respectable | Exotic | but unloved Patricia Morison

lauds ethnic art

an image problem these days.

Exotic yet unloved, it has to be brought in from the cold with a few blockbuster exhibitions so that at long last the public will begin to appreciate Principle. appreciate Britain's enormous and superb collections of non-western art. Who thinks of Eskimos in connection with Nuneaton? Who associates Maidwith Nuneaton? Who associates Maidstone with a fabulous Pacific and North-Western American collection? A good deal of nonsense is talked about the so-called treasures languishing in museum basements, but in the case of ethnographic collections, often by their nature extremely fragile, the grumble is nearer the mark. Priceless, or at least irreplaceable, collections shipped back by hundreds of colonial administrators crumble away, uncatalogued and unseen.

Part of the problem is the word eth-nography, with us since the 1830s. Many people have not a clue what it means and those that do often associate it with Victorian racist scholarship and the ethically dublous methods of profesthe ethicativ dinious methods of profes-sional plunderers. So it is not surpris-ing that museum people will often say that non-European art is not "popular". And yet, need that be true? This is, after all, the year of Dances with Wolves. Surely a blockbuster exhibition on native American art staged now on native American art staged now could prove a howling success.

A fascinating afternoon in Brighton showed me what we are missing. Few people, not even specialists, know that the Brighton Museum, opposite the Royal Pavilion (tel 0273-603005), owns one of Britain's richest collections of

one of Britain's richest collections of non-Western art with some 12,000 items. The Brighton collection now has a new curator of ethnography, Anthony Shelton, who was astonished to discover quite what riches the collection holds. Unfortunately, the museum is typical in that at present the public sees only the tip of the ethnographic teaberg.

Nor, as Shelton admits, is that tip an alluring prospect. The permanent exhibition looks like a redundant aquarium. Nothing appears to have changed since Nothing appears to have changed since the 1960s. The gallery is painted dark brown, and the African section has a fake leopard-skin background. And yet, within such Stygian surroundings the wisitor such Stygian surrounnings the visitor prepared to crouch and peer will spot some good things, such as the Sri Lankan "curing screen" with its horrible personifications of Disease.



Conservator Ray Martin at the Brighton museum with the masks from New Ireland, New Guinea

Nor could anyone miss the magnificent winged shark from New Ireland,
an island in the Bismarck Archipelago
which is now part of New Guinea. The
delicately striped monster commemorates an actual event when a brave fisherman had his leg chewed off by a
shark but managed to kill the brute
and, thanks to a ritual song-and-dance,
survived his wounds. The sculptor has
represented the heroic fisherman as a
tiny figure attached to the mouth of the
terrible air-borne fish.

New Ireland masks, or malanggans,
were made to repose in ancestor shrines
and are extremely rare and fragile. As
Shelton explained, curators regard

Shelton explained, curators regard themselves as lucky to own even one; he was thrilled to find that, unknown to the scholarly world, the Brighton collection has 15. The shark apart, they have tion has 15. The shark apart, they have not been on display in years. However, at least they have now reached the conservation department — thanks to the special needs of the Royal Pavilion, Brighton Museum has a staff of ten conservators. Their skills are thoroughly taxed by these complex masks which mix pith, grass, bone, shell, crushed lime and leaves. Surely never has the human head been more invenhas the human head been more inven-tively transformed by artists. Vast pad-dles stand in for ears and a pair of disciplined wooden serpents marches skyward above a Mohican-like crest; and real teeth snarl in a vulpine grin. and real teeth snarl in a vulpine grin.
Simply as objects, these sculptures are a knock-out and should be seen. Shelton now has to harpoon his own particular fish, development grants, so that more can be made of Brighton's astonishing collection. He hopes to turn Brighton into an ethnographic centre for the south coast. "We should see ourselves as a regional museum, not as one more provincial collection. Then we must develop links with the small

museums which do not have the resources to show their collections." He is that rare thing, a curator who talks enthusiastically about wholesale rationalising and devolution of collections.

So perhaps Brighton will spearhead change in the fusty image of ethnographic Exercice the current termorage.

change in the fusty image of etdnogra-phia. Exotics, the current temporary exhibition (until the end of May but may be extended) which is part of the Brighton Festival, is a very modest show; you could probably fit all the exhibits into two suitcases, and yet it is a model of what you can do. The theme is a quotation from French sociologist Pierre Bourdieu, "The eye is a product of history". We see images of how the White Man perceived the Red Man and, more unusually, the view from the other side.

other side.

In 1898, professional photographers Frank A. Rhinehert and Adolph F. Mutter were commissioned by the organisers of the Omaha Indian Congress to take a set of studio-portraits of "typical" Red Indians "to preserve the memory of the American Indian for future generations." The Omaha Congress itself soon lost its veneer of ethnographic seriousness as it degenerated into staged battles between Indians and their conquerors. In the exhibition sevtheir conquerors. In the exhibition several dozen of these sepis photographs are displayed, poignant images of Indian couples and families which are presented without comment but simply as the melancholy records of a doomed society. society.

However, it is the second face of Exotics which is so interesting, the carvings of argillite made by the Haida Indians of the north-west coast. Argillite is a smooth black material resembling slate. Most of the pieces come from a private collection but some are from the museums at Brighton and Maidstone. The pieces were made between the 1840s

and 1880s and traded with the Europeans, although it is not made clear whether the carvings are therefore a whether the carvings are therefore a 19th-century version of "airport art", made purely for foreign consumption. Vigorous and delightful as carvings, the pieces are also highly enigmatic in the way they represent Europeans at work and play.

A number take the form of pipes, modelled on the clay pipes which were handed out to Hudson Bay employees, but there are also small figure sculptures and a splendid dish carved with a grinning beaver-man. On one pipe there

tures and a splendid dish carved with a grinning beaver-man. On one pipe there is a lively scene of a European having his hair cut, on another a man being treated for goitre. The Haida may have found both activities very odd, and they appear also to have been impressed by the white men's ships and by the activities of sailors and shipwrights. A statuette of a Russian sea-captain is beautifully observed, grasping the rail of his ship in his high cap and large-buttoned overcoat.

Did European women struck the Baid as remarkably dominating compared to their own? In a lively scene of Europeans carousing a large lady in a bustle sits on the knee of a comically undersized sailor. The statuette which appears to show a mother and child may be a caricature of the white woman dandling a mannikin spouse. Odder still is a woman in Welsh dress with her steeple hat, who has Indian features. Is it the portrait of a servant, or was there a Haida lady who dressed as a Welshwoman?

This is a tiny exhibition but it works exceptionally well, partly because it takes an unfamiliar and intrinsically beautiful art-form, partly because makes us reflect on an exceptionally rich theme, the relationship between European and exotic cultures.

Antony and Cleopatra BLOOMSBURY THRATRE

Nothing about the first all-black British production of Antony and Cleopatra is perfect, and yet this is a more satisfying account of the play than the other two I've seen this year. The programme note, by the staging's director Yvonne Brewster, made me fear the worst; it goes from colonisation, via the collapse of old dynasties, to Cleopatra fall-ing "prey to this most unro-man of Romans, to his generos-ity of spirit and his ability to laugh". But the actors are awake to the play's tremen-dons range, and the production dons range; and the production is fully aware that these characters change the course of his-

acters change the course of history.

The actors in this "all-black" cast have, in fact, a vast range of hirthplaces, accent, colours and acting styles. Though they are meticulous over details of scansion ("Asia" is given three syllables, "expression" four), they aren't, as yet, an ensemble. Some make musical phrases out of their lines, some chant artificially, some deliver every syllable like a bark. Almost none of them can hold the house with a pianissimo; the house with a pianissimo; they rely too much on volume, not enough on a current of focused tone. But they're caught up in the

business of communication. Shakespeare's verse doesn't make them inhibited or monotonous, it supplies them with a vast palette of colour and opportunity. Best, and most natural, is Ben Thomas as Caesar. He has authority, ease and terrific drive. No-one makes more music from the lines than he; he seems to cover two

octaves in a single line. Worst, and most self-conscious, is Renu Setta as a rather creeply urbane Enobarbus. He rarely enters words cleanly, but drones lines as if playing the bagoices.

baggipes.

Dona Croll is a funny, sensual, powerful Cleopatra, with a large, handsome, cunning and ambitious face. Her diction and ambihous lace. Her diction is slightly affected, she throws up her chin to look powerful, and, feigning ill-health, she could fool no one. She makes nothing of some lines ("Can Fulvia die?" and "or I'll unpeople Egypt") and, once on the monument, an occasional attack of tracic nobility overattack of tragic nobility over-whelms her and renders her whelms her and renders her variety all too finite. But she speaks in liquid phrases, she holds out lines to the light with relish ("his delights were dolphin-like") and her temper ("He words me, girls.") is splendid. She catches the untrammelled force that makes Claometra the most imperious Cleopatra the most imperious and the most animal person in

the play. Jeffery Kissoon, who plays Antony, is one of the barkers in the cast. He has a proud face, heroic build and a strong voice. At first he is an odd mix-ture of "lascivious wassails" and polite oiliness, and his speeches are spoilt by his sepa-rate-syllable yapping. But he rises with the play and confers on Antony an extraordinary loneliness, an isolation of temperament than only Cleopatra can cure. The massive power he unleashes in the battle scenes is thrilling.

Alastair Macaulay

The Shaming of Bright Millar

MANCHESTER CONTACT THEATRE

the history of madness, the action will be unintelligible but absorbing. If one has, the play will look like a course of therapy for its central charac-ters. Either way, Stock tries to dramatise some intractable processes: memory, madness, guilt and suicide. The play's 12 scenes shift

between 19th-century Manches-ter, Nazi Germany, and con-temporary Cornwall. It is the story of Elspeth, an implacable old German woman: her daughter burned herself to death; her granddaughter suffers the expected nighmares over her mother's loss.
Elspeth's body is consumed by
blood plasma disorder and her
mind by guilt for her part in a Nazi eugenics propaganda film. Add in substantial flashback and dream roles for Hitler, and a poor 19-century lunatic called Bright Millar, and a tottering plot is felled by its own com-

The play comes straight from the Dennis Potter school, and resembles The Singing Detective in its attitude to disease and mental disorder. It would fare much better on television, where its intercutting suits the medium. While Brigid Larmour's direction manages the transitions well enough, and a sensible open set keeps the action clean, the play's plo-tlessness wins in the end. Andrew Clark The language is brutal, steaming hot from the troop-

James Stock's new play, The Shaming of Bright Millar, is a strenuous and perplexing experience. One might prepare for this by reading Freud's case notes or Foucault's social history. If one has no familiarity with psychoanalysis or with the history of madness the Millar in the name of religio-scientific investigation, is sadistic and sickening. The act-ors cope admirably, with Joan Heal as Elspeth and Robin Soans as Hitler particularly good. Paul Brightwell makes the most of the difficult lunatic part, producing the screams and incoherences to order.

The play needs shortening and the acting style fails to grasp that histrionics are no substitute for issues humanely expressed so that they speak of us as well as of the situation on stage. I hope this play improves; it deserves to. Now, it has three main drawbacks. Its material is too dense; characters have to scale emotional heights as soon as they start each scene. Its shifts are too abrupt and arbitrary, depriving the play of pace and momen-tum. And its answers fail to live up to the elaborateness of

its enquiry.
Its conclusion is grim: the past never dies, and the chil-dren pay for their parents' blunders as they snowball down the generations. This sentiment reminded me of Philip Larkin's vicious lines: "Man hands on misery to man, It deepens like a coastal shelf; Get out as early as you can, And don't have any kids your-self"; but *The Shaming of Bright Millar* is even more des-

Andrew St George

Christa Ludwig

want to Her recital on Sunday was an exemplary demonstration of Lieder singing, in which her vocal powers seemed scarcely diminished by the years. Though the tone hardens a little now when pressed to climaxes, it is still utterly unmistakable; inflections are touched in with as much precision as ever and the sense of line, the peerless continuity, remains immaculate. Admirers may have anticipated the recital with apprehension, fearing to finding only a pale replica of a great singer; they can only have gone home exhibit and the persistence of her art.

om her last appearance at the Wigmore Hall Miss Ludwig sang Schubert's
+ Winterreise+. This time, accompanied by Charies Spencer, she offered a
very mixed programme, beginning with
a Schubert group which included "Der
Lindenbaum" from the Müller cycle,
and going on to Wolf, Liszt, Von Sinem
and Strauss. As she relaxed and got
into the recital, her singing audibly
rolled back the years. There was swift. isting slip the brittle
postalgia of the best early
Brecht.

Jackie Wullschlager

laboured, as if the voice was still lim-

According to the reference books
Christa Ludwig was born in 1928, but
Wolf's "Anakreous Grab", and a light, we don't have to believe that if we don't have the believe that if we don't have the belie memer Locken".

After the interval four Liszt songs of uncertain musical quality (including the rambling "Die drei Zigeuner", which gave Mr Spencer the opportunity to shoot off on a Hungarian rhapsody of his own), preceded the London premiere of Cottleded was Phaging and Pall sing. of Gottfried von Kinem's +Bald sing ich das Schweigen+, a songcycle on poems by Lotte Ingrisch. It is a sequence of meditations on impending death told in brief, uncomplicated lyrics and a style that wouldn't have perplexed Wolf. But it is an idiom that Miss Ludwig commands utterly, and she charged the songs with an intensity that belied their lack of substance. When in the final song the world of Mahlert Bracket song the description. Mahler's Ruckert songs was glancingly evoked, the echo brought with it memories of Ludwig's own imperishable Mahler performances, and Von Einem's col-ourless setting was convincingly eclipsed. After that there some Strauss, including a sensuously unfolded "Morgen" and as glorious first encore, "Zueignung", with the line souring to its climax as majestically as ever. A marvellous evening.

Ohana's Cello Concerto

RECONTRES MUSICALES D'EVIAN

competition. But the competition (no first prize this year) is just one part of the "Rencontres Musicales" — a meeting-point between gifted young musicians and some of the world's great musical personalities. Thanks to Matislay Rostropovich, the inspirator of the whole enterprise, these young musicians can also take part in the first performance of works he has commissioned. Last year saw the premiere of Schnittke's Second Cello Concerto. This year it was the turn of Maurice Ohana.

Now in his late seventies, Ohana is finally being recognised as an original voice in postwar music. The reception given to his opera *La Célestine* three years ago in Paris suggests he is even acquiring cult status. This 18-minute sellements of the status of the statu cello concerto is neither strikingly exploratory nor populist, but it is still a fascinating, fastidiously-constructed piece of music. Subtitled "In Dark and Blue", it takes the form of a rhapsodic nocturne, full of sultry warmth and seductive sonorities, with jazz effects that could have drifted in from some sleazy Mediterranean night-club.

In his instrumental colouring —

Andrew Clements muted trumpets, delicate woodwind voices - Ohana's kinship with Falla

are passages (like the opening cadenza, after a moody orchestral entrée) where the solo part sounds more like a plucked guitar or bass. He also indulges in teasing glissandl and makes the cello sing, dream, pirouette and pout, with gently contrasted backing not unlike a sophisticated jam session. There are no large gestures or bravura effects: the mood is laid-back, almost private. Rostropovich brought all his tonal splendour to bear, though the piece must be one of the least taxing of his recent commissions. This year's resident orchestra was Japanese - the

Symphony Orchestra of the Toho Gakuen Music School, which consists almost entirely of immaculately turned-out teenage girls. Under Seijl Ozawa, they were an impressive machine, meticulous if rather impassive in the two overtures framing the programme - Mozart's *Impresario* and Bernstein's *Candide*. Ozawa also conducted a sumptuous account of the Tchaikovsky Serenade for Strings, after which the expensive Evian audience found the Ohana concerto something of an anti-climax.

performances except Mon (870 5570)

Season runs till June 30, with daily

Off Broadway the following shows can be recommended: Breaking Legs is a comedy by Tom Dulack

about what happens when some Mafia godfathers want to invest

in a Broadway show (Promenade Theater). The Resistible Rise of Arturo UI, directed by Carey Perioff, is Brecht's savage parable

of the rise of Hitler, set in gangland Chicago (Repertory Theater). Night Sky, starring Joan MacIntosh, is

Susan Yankowitz's play about a brilliant astronomer who suffers

a head injury, leaving her unable

tickets for shows on Broadway

Orchestre de Paris (4561 0630) ■ PRAGUE

National Theatre 19.00 Armida, opera by Dvorak, also Fri. Other Dvorak opera performances this week include Rusalka (Thurs) and The Devil and Kate (Sat). A new production of Die Entluhrung aus dem Serali opens in the Smetana Theatre on Sat, followed by a performance of Don Glovanni on

Prague Castle 20.00 Frank Peter Zimmermann, accompanied by Alexander Lonquich, plays violin sonatas by Mozart, Bartok and Prokofley. Tomorrow: The Consorte of Musicke directed by Anthony Rooley, plus recital by Barabara Hendricks Pre-booking at Sluna ticket agency, Wencesias Square 28

VIENNA

Staatsoper 19.00 Peter Schneider conducts Die Zauberflote. Tomorrow, Fri and Sun: Lucio Silia. Thurs: Entluhrung, Sat: Idomeneo (51444 2960). Tomorrow at Theater an der Wien: last chance to see Jonathan Miller's Vienna festival production of Le nozze di Figaro (586 1676)

Musikverein 19,30 Georges Pretre conducts Vienna Symphony Orchestra in Haydn's Symphony No 101 and Mahler's Fifth (505 8190\

Konzerthaus 19.30 Robert Holl, accompanied by Rudolf Jansen, sings Lieder by Schubert, Fussi and Pfitzner. Tomorrow: Julius Bittner's Great Mass. Thurs and Fri: Arditti Quartet (7124 6860) European Cable and Satellite Business TV (all times CET) MONDAY TO FRIDAY Eurosport 0800-0830 International Business

0500-0530 Moneyline
0800-0830 Moneyline
1230-1300 CNN Market Watch
1330-1400 Business Day
2000-2030 World Business Today a joint FT/CNN production with a
review of the day's major business stories ness stories 2300-2330 World Business Today 0100-0130 Moneyline

0500-0530 Moneyline

Superchannel O700-0630 Financial Times Business Report
A five minute business briefing broadcast three times between 0700 and 0800
220 - 2250 (Wed) Financial Times
Business Weekly - the latest
round-up of business news with
James Beilini and Debbie Mkidle-

0830 & 2030 (Thurs) Financial Times Business Weekly

Sky News 1200 International Business 2130 (Thurs) Financial Times Busi-ness Weekly

SATURDAY CAN 0800-0830 Moneyline 0800-0830 World Business Today

a joint FT/CNN production 1540-1610 Moneyweek 1800-1930 World Business This Week 2110-2140 Your Money SUNDAY

1800-1830 FT Business Weekly 1930-2000 FT Business Weekly 2330-0030 FT Business Weekly

Sky News 1030-1100 FT Business Weekly GNW 0710-0740 Moneyweek 1540-1810 Your Money 1900-1940 Moneyweek 0040-0110 Inside Busin

INTERNATIONAL TODAY'S EYENTS

■ BARCELONA

Gran Teatre del Lices 21:00 Recital by Kiri te Kanawa accompanied by Roger Vignoles, with songs by Mozart, Liszt, Straues and others. Tomorrow and Sun: Tosca (412 1466)

BERLIN

Stratsoper unter den Linden 19:30 John Cranko's ballet The Taming of the Shrew, also tomorrow. Thurs: La traviata. Fri: Pelleas et Melisande (2004 762) Komische Oper 19.30 Gunter Kramer's production of Der Freischutz, Tomorrow: The Bartered Bride. Thurs: Glustino (2292 555)

Deutsche Oper 19.30 Otto Nicolal's Die lustigen Weiber von Windsor. Tomorrow, Aida. Thurs: Manon Lascaut, Fri: concert to celebrate 200th anniversary of Bertin Sing-Akademie. Sun: Tristan und Isolde with Kollo and Jones (3410

Philipermonie Kammermusiksaal 20.00 Christian Mandeal conducts RIAS Youth Orchestra in music by Reger and Schubert, with Kolja Blacher soloist in Mendelssohn's

Violin Concerto, Tomorrow: Berlin Philharmonic Orchestra plays Schnittke, Boulez, Ligeti and a Kurtag world premiere. Thurs, Fri, Sat and Sun: Giulini concerts (2614

■ BONN

Oper 20.00 Vaclay Neumann conducts The Bartered Bride, with a cast including Alfred Muff as Kecal and Graham Clark as Vasek, also Sat. Tomorrow: Falstaff, with Juan Pons in title role. Thurs and Sun: Pelleas et Melisande (773667)

■ BUDAPEST

Academy of Music 19.30 Andras Ligeti conducts Hungarian State Symphony Orchestra, Tomorrow Donald Johanes conducts Budanesi Symphony Orchestra te Opera 19.00 Les Contes d'Hoffmann, also Fri. Tomorrow: Tannhauser Erkel Theater 19.00 La Gloconda,

opera by Ponchielli sung in Hungarian, also Fri. Pre booking at Philharmonic booking office, Vorosmarty ter 1, and central theatre box office, Andrassy ut

■ CLASGOW

Royal Concert Hall 19.30 Riccardo Chailly conducts Royal Concertgebouw Orchestra In Bruckner's Fifth Symphony (041 227 5511). The orchestra plays an alternative programme tomorrow at Birmingham's new Symphony Hall (021 782 8282), and then visits the Barbican in London on Fri and the Chatelet in Paris on Sat

LONDON MUSIC

Covent Garden 19.30 Hildegard Behrens sings Tosca, with Nell Shicoff as Cavaradossi and Samuel Ramey as Scarpla, also Fri. Tomorrow and Sat: Carmen. Thurs: David Bintley's new ballet Cyrano

Collegum 19.30 Monte Jaffe sings title role in Stephen Oliver's new opera Timon of Athens, staged by Graham Vick and conducted by Graeme Jenkins, also Fri. Tomorrow and Sat: Peter Grimes. Thurs: Mackerras conducts The Cunning Little Vixen (836 3161)

Roval Festival Hall 19.30 Paolo Olmi conducts Royal Philharmonic Orchestra in concert performance of Nabucco, with Matteo Manuguerra in title role and Julia Varady as Abigatile. Thurs: Montserrat Caballe sings opera arias (928 8800)

Queen Elizabeth Hall 19.45 Jonathan Brett conducts English Classical Players in Brahms Serenade No 2, Dvorak's Czech Suite and Mendelssohn's Violin Concerto, with Maurice Hasson. Tomorrow: Fischer-Dieskau singe Schubert (928 8800)

Sadjer's Wells 19,30 Opera 80 begins a two-week season featuring performances of Die Zauberfiote and Don Pasquale, sung in English (278-8916)

Barbican 20.00 Mariano Torres Spanish Dance Company presents A Night in Seville, popular

flamenco dance musical. Also tomorrow, Thurs and Sat. Fri: Cahilly conducts the Royal Concertgebouw Orchestra. Sun: Henry Mancini in concert (638 8891) THEATRE

This week's Royal Shakespeare Company repertory at the Barbican includes King Lear (tonight), directed by Nicholas Hytner with John Wood in the title role. This is followed by Bill Alexander's production of Much Ado About Nothing (tomorrow and Thurs) and Love's Labour's Lost, directed by Terry Hands (Fri and Sat). In The Pit, the RSC is showing Christophe Marlowe's Edward II and The Last Days of Don Juan, Nick Dear's adaptation of Tirso de Molina's bawdy morality play. For information about other shows, call Theatreline from anywhere in UK: Plays 0836 430959 Musicals 0836 430960 Comedies 0836 430961 Thrillers 0836 430962

■ MUNICH

Staatsoper 19,30 Gerd Albrecht conducts Harry Kupfer's production of Tchalkovsky's The Maid of Orleans, also Fri. Tomorrow: Cinderella (ballet). Thurs and Sun: Borls Godunov (221316)

■ NEW YORK DANCE

Ballet Theatre production of La Bayadere, also tomorrow and Thurs. Season runs till June 22, with daily performances except City Ballet in works by Balanchine,

Jerome Robbins and Peter Martins.

to speak, and struggles to create a new identity and language (Judith Anderson Theater). Ticketron (246

THEATRE

DANCE Théâtre de la Ville 20.30 Shijima Runs till Sat (4274 2277) till Sat (4720 3837)

Metropolitan Opera 20.00 American Sun (362 6000) New York State Theater 20.00 NY

0102) answers inquiries and selis

■ PARIS

(1988), ballet by Ushio Amagatsu. Théâtre des Champe-Elysees 20.30 Mark Morris Dance Group, Runs

Chatelet 19.00 Thomas Zehetmair accompanied by Emanuel Ax plays violin sonates by Mozart, Debussy, Schoenberg and Brahms, (4028

2840) Salie Pieyel 20.30 Andras Schiff plays plano music by Bach, Reger, Handel and Brahms. Tomorrow: concert by Lamoureux Orchestra including Villa Lobos' Gultar Concerto. Thurs, Fri and Sat: Semyon Bychkov conducts

FINANCIAL TIMES

Telephone: 071-873 3000 Telex: 922186 Fax: 071-407 5700

Tuesday May 21 1991

Fast-track or the buffers

ONLY US Congressmen who want to go down in history as having wrecked the world trading system should vote against the Bush administration's request for a two-year extension of its mandate to negotiate trade agreements.

The so-called fast-track authority that is encapsulated within this mandate expires at the end of the month. Without it there would be no chance of completing the Uruguay Round of multilateral trade negotiations or of agreeing the mooted free-trade pact with Mexico. Even for those who wrongly believe the US should forsake multilateralism for regionalism in its trade policy, the case for extension is compelling. With-out it the US would not even have this choice. It would be thrown back on aggressive uni-lateralism. This would eventually redound against its own exporters as retaliation elsewhere choked off their over-

seas sales. Yet while a vote in favour o the fast-track would lift the immediate uncertainty sur-rounding the Uruguay Round, it would be insufficient to ensure its eventual success. Protectionist pressures are not abating. On the contrary, they are growing as the world econ-omy slows. All participants should redouble their efforts to complete the Round quickly, if possible by the end of the year.

Acute pressure

Mrs Carla Hills, US trade representative, has fought hard for an extension to the fasttrack. Expectations in Washington are that Congress will now comply, however grudg-ingly. Yet this will also raise new expectations. A positive vote would mean she could no longer expect to be applauded at home, simply by standing firm in the Uruguay Round. Instead she will be under acute

pressure to deliver.

The temptation to fudge a deal with the European Com-munity on the divisive issue of farm subsidies would look beguiling. The Round could then be dressed up as a suc-cess, but it would have achieved little in practice to enhance the status of the Gatt and strengthen the multilateral trading system.

This temptation may have

the way in which Mexico has taken centre stage in the fast-track debate. The Uruguay Round has enjoyed benign neglect. This suggests it is now seen as an innocuous affair, to be wrapped up quickly for the sake of international harmony but of no direct relevance to the real problems of US com-petitiveness. Meanwhile, a

fudge would let an anguished Brussels off the hook of farm Yet it would be a great mis-take for either Washington or Brussels to try to cobble together a deal simply for the sake of political expediency. Other players, notably the Cairns group of farm exporting nations, would object. More-over, the Round would only be a true success if it were to curb unilateralism in US trade policy and allay the threat of bitter trade conflicts by imposing genuine discipline on farm sup-

Mature approach

Other participants are aghast at the petulance of top negotiators in both the US and EC, which has left them barely on speaking terms. Mr Arthur Dunkel, Gatt director-general, indicated in London this week that the world expects a more mature approach. Substantive reform is the only way to secure the potential benefits of the round for billions of people.

The US must accept the obligation to reduce unilateralism. It is no use pretending, as many in Washington nowadays do, that disputes with countries like Japan are somehow special and should be handled outside the confines of the Gatt. Equally, the US does not have the sole right to decide when and how individual service sectors should be opened

The political price of curbing unilateralism would be very high. Washington would never pay it without substantial cuts in EC farm support. Europeans who think otherwise are guilty of flagrant self-deception.

A fast-track extension would provide one last opportunity to pull back from the brink of anarchy in trade. Exploiting it should not be portrayed as political sacrifice, but as what it really is, enlightened self-in-

The post-16 caucus race

HOW CAN the government raise the proportion of young people who stay on at school or college after 16? In a world where competitive advantage lies largely in the knowledge and skills of a nation's workforce, finding the right answer is of paramount importance.

The full-time education and training stakes in England and Wales eliminates runners almost as fast as the Grand National Nearly half the field drops out at the earliest possibie point in the race - with the end of compulsory education at 16. After another year, only a third of young people have stayed the course. By 18, fewer than one in five remains in full-time education or training.

Yesterday's white paper on education and training aims to raise the numbers staying on to the levels in other industrial economies where 80 or 90 per cent stay on beyond 16 and more than half are still in the race by 18. The government attributes the current rate of attrition to the poor image of vocational qualifications seen as a second best for those unable to make the grade in the academic stakes. The solution offered is a new and improved system of vocational qualifications to be introduced by the end of 1992. These qualifications will count towards a new diploma which will become the entry requirement for higher education.

Job guarantees The white paper contains a lot of other worthwhile measures besides, including the opening of schools to part-time and adult students and formal links between the local authority careers service and the TECs. The training credit scheme is to be extended to every 16- and 17-year-old leaving full-time education, providing a voucher which can be cashed in for training in the future. And the "compacts" trial pioneered by the now-defunct Inner London Education Authority is to go nationwide, offering young people guaran-tees of a job with training if they meet goals they agree with local employers and their

schools or colleges. But it is on the proposals for a unified approach to post-16 qualifications that the white ble to assert that giving formal equivalence to academic and vocational qualifications will lead to parity of esteem from employers, gatekeepers of higher education or young people? Will an Alice in Wonder-land-style caucus race in which all who enter win prizes attract more young people to stay on than a steeplechase?

Highest hurdle

The answer is probably that it will, but not nearly enough
- because it fails to remove the highest hurdle in the post-16 education stakes, the A-level examination system. This highly refined procedure for selecting a small minority of pupils to go on to degree courses dominates the academic agenda for post-16 education, mainly for the conve-nience of the universities. It often damages those who suc-ceed in it by excessive speci-alisation, making a virtue out of biochemists who cannot communicate and arts specialists who can barely calculate

More seriously, it limits the options of the four out of five young people who cannot hope to achieve passes at A-level and thus have little opportunity to secure academic qualifi-

cations after 16.
The virtue of the A-level system is that it provides a strong start for students to achieve high standards at university in undergraduate degree courses which are among the shortest in the industrial world, at no little saving to the exchequer. No doubt this is why the white paper recommends the reten-tion of A-levels undiluted, though with further development of the AS levels which seek to achieve the standard of A-levels with half the content. But it leaves as the pinnacie of academic achievement in England and Wales success in an examination whose main feature is that it excludes most

young people from its scope. This not good supply-side policy for a knowledge-based society. The problem is hardly solved by an administrative solution which insists that every qualification is henceforth equal. What is needed is a range of qualifications suited to the full range of talents and disciplines, between which it is possible to make free choices.

f British politicians agree on anything, it is that their country is the thick

The continental comparisons are damning, familiar and unquestioned. Fewer 16-year-olds remain in full-time education in the UK than in any other advanced industrial nation. Of those who leave, a pitifully small number receive skilled vocational training. And those who stay on specialise so early and so narrowly that illitants and considerations. that illiterate engineers and innumerate historians are par for the graduate course.

With yesterday's white papers on further and higher education, all the main parties have announced their plans for kick-starting the learning pro-cess. How do they measure up in the four critical areas A-level reform, vocational training, the planning of 16-19 provision, and the expansion of higher education?

• A-levels: "We love comparing ourselves to Europe," says Mr Richard Pearson of the Institute of Manpower Studies, but we should start with Scotland for inspiration." It is not simply that more Scots remain in full-time education beyond 16: Scots who stay on study four, five or six subjects at Higher level, a far broader grounding than A-levels pro-vide. The Higher is a one-year course, so university entrants north of the border have less specialised knowledge than their English counterparts. But our-year first degrees mostly

take care of that.

The Higher is under review, with calls - sidestepped in the separate white paper on education in Scotland - for it to be turned into a two-year course That done, it would approxi-mate to the five-subject A-level proposed for England and Wales by Professor Gordon Higginson's official inquiry in

The Higginson report is warmly endorsed by most of the education world, where A-levels are virtually friendless. Yet it has long been a political dead duck. Its fate speaks volumes for the party politics of post-16 education.
For the Conservatives, more means worse. Spurred by the right and the public schools,

right and the public schools,
Tory education secretaries
(there have been five in 10
years) condemn — in knee-jerk
fashion — any questioning of
the so-called "A-level gold standard". Mr Kenneth Clarke does
so again in his white paper:
beneath the camouflage of the
new "advanced diploma",
A-levels survive unchanged.
Yet why should five-subject. Yet why should five-subject

as opposed to three-subject, courses imply lower standards? The white paper gives no con-vincing answer. They might necessitate four-year degrees; but the objections to those come from the Treasury, not from the universities.

Labour and the Liberal Democrats, on the other hand, go

well beyond Higginson and want to abandon the A-level entirely, replacing it with mod-ular-based post-16 courses for both academic and vocational Mr Jack Straw, Labour's education spokesman, insists that academic standards would be maintained, and talks of "core skills" linking vocational

and academic modules. Yet these "core skills" turn out to

be formulations like "values

and integrity", "positive atti-tude to change" and "under-

standing of work and the world" - all very worthwhile, them to do so. but of dubious value in con-structing a common curricu-

Andrew Adonis on how the

main parties measure up

in further and higher

education

Bottom of

the class

WHO STAYS ON:

HOW BRITAIN COMPARES

Age 17/18

School leavers' highest qualifications

Participation of 16–19 year old males in full-time education and training

(se a becountage of age dronb)

1987-1988 (Italy 1985-88)

University entrance level (2 or more 'A' levels)

(1 'A' level and below)"

(1 'A' level and below)"

Age 16/17

lum for post-16. Sceptics may be right to fear that Labour and Liberal ideas have more to do with crude social engineering (an end to A-level "elitism") than with life-chances and national efficiency.

 Vocational training. Rather than lump A-levels and voca-tional qualifications together, the white paper proposes to create a streamlined, more attractive set of vocational qualifications. The National Council for Vocational Qualifi-cations will be responsible for overseeing their development and implementation.
This reform is to go hand-in-

hand with reforms to the careers service, an extension of training credits to all 16- and 17-year-old school or college leavers, and new "ordinary" and "advanced" diplomas, aimed respectively at GCSE-and A-level standard and their vocational equivalents. Minis-ters intend the diplomas to raise the prestige of vocational courses without devaluing the academic, and students will be able to mix the two to attain them. Yet virtually no schools currently offer BTEC courses: it is not clear how the diplomas are going to encourage.

Prance West Germ

55%

Age 18/19

30%

10%

The success of the new framework will depend more than anything on the readiness of employers to train their staff or to release them for training. The white paper is silent on the question of compulsion: ministers clearly hope that company executives on the boards of the Training and Enterprise Councils - there are now 675 of them in all will encourage the others. In a worsening recession, that may be too much to expect. • 16-18 provision. The provision of post-16 education is highly fragmented, and will be still more so after the white paper. For every four 16- to 18-year-olds in school, there are three full-time in sixth-form,

tertiary or further education colleges. Until now, local edu-cation authorities have had responsibility for planning local provision, and they have generally moved towards colleges - often in the teeth of opposition from schools losing their sixth-forms in the process. The institutional pattern varies greatly across the country: in some areas competition reigns; in others there is effectively, a monopoly supplier.

Colleges themselves are mostly keen to gain their free-dom, provided the new financial regime is favourable. "If the money is forthcoming", says Mr Clive Wickens, princi-pal of Oxford's 13,000-strong further education college. "then there are clear advantages in running our own show and being free from a local and being free from a local political process beyond our control". He discounts Hobbesian fears of anarchy: the college is keen to maintain its "very good relationship" with both the local education authority and the local upper schools (they currently produce a single post-16 prospectual).

However, Oxfordshire's chief education officer, Mrs Jo Stevens, is less sanguine, "Planning post-16 is already fraught; it may become almost impossible, particularly if a large number of schools out out." as Mr. ber of schools opt out" - as Mr Clarke hopes they will. A proposal to create a ter-

tiary college in Banbury, in the north of the county, has already been deferred, despite broad local support. If the new system proves incapable of managing change, a future government may have to cre-ate special local bodies to overcome planning blight. Perhaps it will call them "local education authorities".

The colleges themselves will need clear and close guidance from their new funding coun-cil. Most have only limited experience of managing their experience of managing their own finances; many are small and vulnerable. The polytech-nics and colleges funding coun-cit has its hands full with only 84 institutions, and its latest report acknowledges that eight of them face "severe financial finhlume". There is "severe financial oblems". There is some condern that even with a regional sub-structure the new colleges nding council, with nearly 300 institutions to its name, may prove inadequate for the

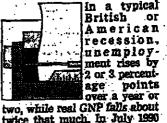
 Higher education, Progress sive elimination of the legal division between the 41 univer sities and 33 polytechnics in England and Wales, and the merging of their funding councils, has long been on the cards. But the change may be more apparent than real. Higher education institutions earn their own reputations, and their formal titles have lit-

tle to do with it.
Proposals on higher education funding may, in the medium term, prove far more consequential. Mr Clarke is proposing a big shift from grants to fees, in effect introducing youchers through the best down This should appear. back door. This should encourage institutions to market themselves more effectively, but their ability to expand will ultimately depend upon resources, unless standards plummet. And since fear of the southern middle classes has led the government once again to resist measures to raise an appreciable proportion of funding from students themselves, as does virtually every other higher education system in Europe, the sector can proba-bly expect a cash-starved 1990s to follow a lean 1980s. Post-16 education is now at

the forefront of the political battle. There are broad fields of consensus, but more than sufficient areas of disagreements for it to become a political foot-ball. If it does, the conse-quences will be debilitating. "Meanwhile," as Mr Pearson at the Institute of Manpower Studies remarks acidly, "the rest of Europe is not waiting for us to catch up".

PERSONAL VIEW A solution for east Germany

By George A Akerlof, Andrew K Rose, Janet L Yellen and Helga Hessenins



twice that much in July 1990 - the month following German monetary unification east German industrial output fell by more than 35 per cent. Unemployment, including short-time work, now affects more than 30 per cent of the eastern labour force. There are few signs that the situation is improving.
What is to be done? At the

what is to be done; at the time of monetary unification, eastern wages were much too high in comparison with east-ern productivity. Since currency union, eastern wages have risen quickly - by almost half since the beginning of 1990. At current wages, by our calculations, enterprises employing only 8 per cent of eastern industrial labour can sell their output at prices high enough to cover their operating costs. Massive lay-offs are occurring. Firms which are losing money at these wages can-not be sold to entrepreneurs not be sold to entreprensits who will operate them. Thus, privatisation will proceed slowly even if the ambiguity of property rights and similar problems are sorted out. And, at these wages, investment will be insufficient for an east German economic miracle. Wag in eastern Germany last July were eight times as high as in Poland and roughly 60 per cent of US levels. Businesses are being expec-

businesses are being experted to shoulder the burden of rapid wage rises. Instead, they are staying out of east Germany. Why would private business take on such a burden? How can the political guar-antee of high income for east-

erners be reconciled with the need for realistic labour costs? Wage subsidies to eastern busiwage students to solution. The German government should offer employment bonuses — payments which are a specified fraction of each worker's wage – to all private non-agricultural firms, new and old, hiring workers in eastern Germany.

The reduction in labour co would enhance profitability and the desirability of eastern firms to investors. State-owned enterprises could be privatised by auctioning them to the highest bidder. The new own-ers would restructure them. Those which cannot be sold would be liquidated. Wage subsidies would enable

many eastern firms to price their products competitively in relation to their quality. These firms could thus be privatised. More important than the preservation of jobs in the old state-owned enterprises, large wage subsidies would encourage the new investment needed

in a typical to modernise the econo Direct investment subsidi are now being offered to stimu-

late capital formation. Wage subsidies also stimulate new investment by raising its profitability.
Wages subsidies would cre ate an environment in which

market forces can work. They create the correct incentives for investment, the creation of jobs, and the liquidation or sale of state-owned property.
Privatised firms which respond
to market signals will be the
real source of the transition to a western economy, since they have appropriate incentives to raise productivity by introduc-ing new management, technology, products, and work-habits. Employment bonuses would reduce migration. In February. we surveyed eastern workers. We found that most easterners want to stay in the east as long as work is available, even at

as work is available, even at current pay, which is roughly half that in the west. Best of all, wage subsidies may actually save the govern-ment money. The large wage subsidies required to raduce eastern unit labour costs to world levels are costly. But most of these costs will be incurred in their absence, since the German government is already committed to a generous programme of unemploy-ment benefits. The direct costs of wage subsidies will be offset by reduced governmental pay-ments of unemployment insuance benefits, as well as higher government revenues from income taxes, social security receipts from the sales of for-mer state enterprises.

Wage subsidies should be part of a social contract:

unions must agree to wage restraint in return for the employment bonuses which such wage increases we pro-pose an automatic decrease in ibsidies if eastern wages rise. in particular, we recommend that wage subsidies be made proportional to the gap between western and eastern between western and eastern wages. This scheme not only eliminates the tendency of unions to ask for higher wages, but is also self-terminating; wage subsidies will automatically wither away as the east catches up with the west.

What are the alternatives to employment bounes? The

employment bonuses? The main alternative is a lais-sez-faire policy of waiting. Eventually, high eastern unem-ployment will lower eastern wages. Eventually wages. Eventually, enough investment will occur for east German productivity to reach western levels. But history shows that these outcomes, if they occur, take a long time. Meanwhile, easterners will migrate to the prosperous west German states. Since east Germans do not want to move, employment bonuses to speed the eastern transition make

Lamont mints it

■ Chancellor of the Exchequer Norman Lamont has been having a bad few days. First came the gaffe in which he said rising unemployment was a price worth paying to

get Britain's inflation down: next, then reports that he was going to sue the sex-therapist who has set up shop in his west London home; and now. to cap it all, the Treasury and Civil Service Committee is cracking the whip over what can fairly be called a Treasury coinage scam.

A report from the committee vesterday could find little good to say about the latest series of changes to the UK coinage system for which Lamont, as Master of the Mint, is

ultimately responsible. Clearly, the committee regards the system as inconvenient, with the seven denominations in current use excessive. It suggests getting rid of the heptagonal 20p coin, and criticises the microscopic and almost weightless 5p for an over-swift introduction. Its most serious quibbles

however, are reserved for the 50p piece. Not only is it too heavy, the committee says, but its existence has become unnecessarily costly.
The reason is that the introduction of the £1 coin has killed demand for 50p pieces, producing what the committee

describes as a "chronic surplus." As a result, London and Scottish clearing banks are having to store them. With the current surplus of the things running at 50m coins, storage is a weighty problem - so much so that outside contractors are having to be used. Worse, since the

of them are suffering a marked loss of revenue. Oddly, the Treasury goes on insisting that the 50p pieces must be kept in existence, on the somewhat suspect grounds that they will eventually be

coins earn no interest, the

banks sitting on £25m worth

OBSERVER

needed. By a happy coincidence, however, the result is that the Treasury has ecured interest-free borrowing for the government at a time when Lamont is presiding over a sharp swing into public-sector deficit.

Well connected

■ Good economists seldom seem to retire these days, so it comes as little surprise to find that Christopher Johnson, 60, has been appointed UK adviser to the Association for the Monetary Union of Europe within days of announcing that he is to leave his post as chief economic adviser at Lloyds

In his new job, Johnson will spend much of his time explaining to British businessmen what is involved in the increasingly likely move to monetary union and a single European currency. He will focus his efforts on industry and the banks, but will also be active in spreading the word to MPs and civil servants. Two attributes which will help him in his new post his array of contacts and a quietly persuasive manner - owe much to an earlier career. Before joining Lloyds in 1977 he spent 16 years at the FT.

where he was was successively Paris correspondent diplomatic correspondent and foreign editor. He ended his FT days as managing director of the paper's Business Enterprises division and a director of the company.

Wounded knee ■ Central Independent

Television, the Midlands station perhaps best known for its Spitting Image satirical puppet show, has found itself on the receiving end of criticism over an apparent bonanza for directors in the



"I asked for a Saddam wristwatch and a pair of hoxer shorts to be taken into consideration."

current competition for franchise renewals. If the company succeeds in retaining the Midlands franchise, it seems, six senior executives will stand to share a total cash bonuses of up to £1.35m provided they serve out their contracts. Fair enough, one might think: other independent television stations are planning to reward their executives similarly if they win. Except that, since nobody is bidding against Central for the Midlands franchise, it seems like money for old rope. Central yesterday put up a robust defence of the deal. Tying in a strong executive team in this way was undoubtedly a factor in staving off the threat of a rival bid, it said. And how could it have a foreseen that no competition

would emerge when it drew up the agreements last year?
"It's like asking why Spurs put Gazza on the team for the Cup Final on Saturday when he was going to be taken off with a torn ligament after 15

minutes," it said, in an analogy which left one struggling to identify Central's wounded

Exit Traub Over the years Marvin

Traub, chief executive of Bloomingdale's and a dapper favourite of the New York gliterati and gossip columnists, has become almost synonymous with the famous department store chain. Now they are parting company.
When the cash-hungry

Campeau Corporation put Bloomingdale's on the block In September 1989, Women's Wear Daily proclaimed that the chain "belongs to Traub" But 66-year-old Traub failed in his attempt to acquire the chain of 17 stores he had run since 1978, and Bloomingdale's, along with Campeau's Federated and Allied US retailing empire, filed for protection from creditors under Chapter 11 of the federal

bankruptcy code.
Although Traub presided
over Bloomingdale's decline,
analysts said his reputation
as a retailing wizard was not tarnished by the problems that have plagued Bloomingdale's since the Campeau acquisition. "He was not responsible for the leverage which led to the Chapter 11. Nor was he responsible for the recession,' says one analyst. But Bloomingdale's has been criticised for not cutting costs sufficiently or improving branch stores.

Traub, whose tenure had been due to run till 1993, will remain until August to help with the transition. His suitably glitzy successor is Michael Gould, 48, who has been head of Giorgia Beverly Hills, the Los Angeles based fragrance operations of Avon Products, since 1987.

Fishy

■ How many surrealists does it take to change a lightbulb?

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of the US, the world's two largest vehicle makers, have been battling it out in Europe for years. But while GM seemed to accumulate only losses, Ford had a string of successes. Now the mice are reversed. eriof, Indica i possible and Helica Helica Helica roles are reversed.

GM's European operations achieved record net earnings last year of \$1.915bn, while the profits of Ford's activities in Europe plunged by 79.6 per cent to only \$263m. The con-trast is most telling in the UK. the European volume market hit hardest by recession. Ford of Britain, the domi-

nant leader of the UK car mar-ket, disclosed last week that it had plunged into loss – a pretax deficit of 2274m - for the first time in 20 years. To rub salt in the wound, Vauxhall, GM's UK subsidiary, a chronic loss-maker for much of the last two decades, had revealed days earlier a record pre-tax profit

The state of the s

Ford, the number two US car maker, had grown used to being able to count on its European operations to help bail it out in troubled times - it was

Creating excitement around a product is imprecise, but GM is succeeding, while Ford has stumbled

bankrolled by Ford of Europe in the early 1980s - while GM ran up a total net loss of \$2.2bn in Europe in the seven years from 1980 to 1986.

Today, a sense of confidence is coursing through GM's European operations, while there is a sense that Ford has begun to lose its way in the second half

of the 1980s. Ford faces the charge – particularly from British critics -that it has opted in recent years for caution rather than adventure in its approach to the design and development of new products. Its present engine range is much criticised for having fallen behind the competition. It has endured a period of unhappy industrial relations, most particularly last year in the UK and in Belgium, and it has appeared to fall behind some of the labour relations innovations achieved by its rivals, not least GM itself

Last year Ford was overtaken by GM in the western European new car market for the first time, with GM taking over fourth place behind the Volkswagen group, the Fiat group and Peugeot, which includes Citroen. The GM group captured 11.8 per cent of western European new car

Ford flounders in a reversal of roles

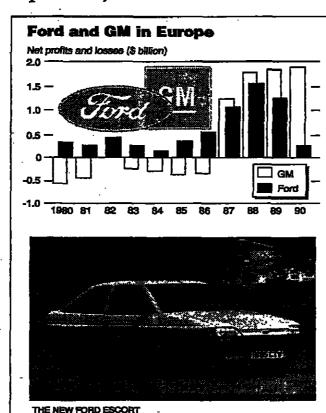
The US car maker is falling behind some of its European competitors, writes Kevin Done

sales, marginally ahead of the 11.5 per cent taken by Ford. Apart from its strategy deci-sions for new products, the hig-gest gamble Ford has taken recently in Europe is the costly £1.56bn takeover of Jaguar, the UK luxury car maker. The profitability of its traditional core Ford operations in the UK slumped last year, but it was the financing costs for the Jaguar acquisition and the luxury car maker's continuing heavy leaves that weeked Eard of losses that pushed Ford of Britain into such a heavy loss. Car makers spend hundreds of millions of pounds-over sev-eral years on developing new production convertions. Lest

production generations. Last year Ford launched its impor-tant new generation of Escort/ Orion small family car range following an investment of more than £1bn in a five-year development programme, the largest sum it had ever spent in Europe on a new product. The Escort/Orion has been Ford's most important car range in Europe, accounting for about 40 per cent of all its European car sales. Instead of the expected plau-

instead of the expected plati-dits the car was panned by the UK motoring press. "Ford's new Escort meets its rivals ... and loses," proclaimed the front page of Autocar & Motor, one of Europe's leading motor-ing magazines. Autocar followed up bravely earlier this year with a re-appraisal, and concluded: "The direction, the aspirations of the range are as middle of the the road as ever." Creating the necessary aura of excitement around a product is an imprecise art, but for the moment GM is succeeding, while Ford has stumbled. The present confidence at GM in Europe has been prompted by product successes that have added a sense of dynamism to its Opel and Vauxhall

marques.
Ford was clearly trumped by GM's launch last year of its sporty Opel/Vauxhall Calibra coupé. This was a market niche, which Ford had earlier dominated with its Capri, but which had been largely vacated in Jananese competivacated to Japanese competi-tors before the successful introduction of GM's Calibra. For the moment Ford has no rival



GM's new generation Opel Vectra/Vauxhall Cavalier has scored heavily against the age-ing Ford Sierra, which is not due for replacement until 1993, while the Ford Escort/Orion while the Ford Escort/Orion appears to have failed to open up a generation gap over GM's present eight-year-old Opel Kadett/Vauxhall Astra.

Ominously for Ford, the Kadett/Astra will be replaced by a new generation Astro

by a new generation Astra range in the autumn, while the successor for the best-selling car in this class in Europe, the Volkswagen Golf/Jetta, will also be unveiled this autumn. In the autumn GM will steal a new march on Ford, when it iaunches its Opel/Vauxhall Frontera, a four-wheel-drive leisure utility vehicle, into another growing specialist niche of the European vehicle market, where Ford is cur-

rently unrepresented.

Ford has allied itself with
Nissan to develop a rival to the Frontera – the GM vehicle is derived from a model launched earlier by Isuzu, its Japanese affiliate - but the Ford/Nissan vehicle is not expected to appear before 1993, In the UK, Ford's single larg-

est market, all car makers have been hit by the recession, but Ford is under-performing the falling market. The erosion of its market share has been under way for some time with a fall from the peak of 30.9 per cent in 1981 to 25.3 per cent last year. The erosion accelerated to only 23.4 per cent in the first four months of this year.

While the UK looms large in Ford's European fortunes not just in terms of sales, but also in terms of design, development and engineering, vehicle assembly and compo-

nent production including, most importantly, engines – too narrow a focus ignores its outstanding recent success in some other European markets. It has enjoyed marked gains in Italy, much to the discomfi-ture of Flat, thanks especially to the breakthrough achieved by its new generation Flesta small car launched in 1989, and backed more recently by the new Escort. Ford may be new Escort. Ford may be accused of buying market share in Italy through very competitive pricing, but it has managed to boost its market share to 11.1 per cent in Italy in the first four months this year from 7.2 per cent a year ago and only 3.7 per cent in the corresponding period of 1988 corresponding period of 1988. This is an extraordinary per-formance in an industry where

gains are often measured after the decimal point. It is also scoring heavily in France, another market domi-nated by small cars, where Ford increased its sales by about 13 per cent in the first four months this year, com-pared with heavy falls suffered by Peugeot, Renault, Fiat and Volkswegen Volkswagen.

importantly it is also gaining some ground in Germany, the one new car market in Europe that is enjoying dynamic growth in new car sales this year in contrast to the gloom emanating from most other parts of Europe.
Ford argues that its financial

setback last year in Europe, and in particular in the UK, was only a stumble brought on by a series of special factors, some outside its control. Mr Lindsey Halstead, Ford of Europe chairman, has launched a campaign to make the corporation less bureau-cratic, to take out layers of middle and senior manage-ment, and to push the decision-

making process to lower levels in the organisation. He argues that the first fruits of a "truly huge" pro-gramme to renew the company's engines and transmis-sions will be seen this year and that by the mid-1990s all its engines will have been rede-signed or improved. In 1993 Ford will launch its new generation Sierra, a car that will be vital to its chance of wresting the initiative back from GM. It is developing with

from GM. It is developing with Volkswagen a "people carrier" to challenge the Renault Espace, which will take it into a niche, where GM is absent, and it devoting growing resources to developing a two-troke engine to power a new generation of mini-cars, smaller than the Fiesta.

Such moves will determine Such moves will determine Ford's fortunes in the mid-1990s, and how successfully it can put its present financial woes behind it.

Joe Rogaly March on London



General Kinadvancing on Landon This morning the leader will fire off yet

another policy paper. There is to b new authority, a "voice", for the capital city. I will come to this much-recycled proposi-tion in a moment, but first note that of the 100 marginal seats that Labour needs to win if it is to command a working majority in the House of Commons, no fewer than 24 are in the Greater London area. Capture London, and you probably have Down-ing Street in the bag.

Today's campaign was pre-ceded by yesterday's softening up. The Labour spokesman on transport, Mr John Prescott, proposed a new quick and cheap railway line around the city, to keep traffic out of the centre. The Labour-controlled centre. The Labour-controlled Association of London Authorities (ALA) published a report describing the run-down state of London's schools. These and similar broadsides will be followed by an ALA symposium on Friday; there Labour will deploy both the Henley Centre for Forecasting and Baroness Forecasting and Baroness Tessa Blackstone. Heaven

help the government.

We should not be overly bedazzled by this latest example of Labour's apparently relentless competence. The relentless competence. The opposition's mastery of strategy stands out against the recent public floundering of the Conservatives, but that is all. We have yet to see the Tories at their best. Their fight-back has only just begun. They might point out that the London Labour party is not yet completely purged that the London Labour party is not yet completely purged of loonydom; many of today's prudent pragmatists are yesterday's ranting rabble-rousers. I suspect that Mr Kinnock and his colleagues planned the London suspects and the london suspects are longon to the longon suspects and the longon suspects are longon to the longon suspects and the longon suspects are longon to the longon suspects and the longon suspects are longon to the longon suspects and the longon suspects are longon to the longon suspects and the longon suspects are longon suspects and the longon suspects are longon suspects and the longon suspects are longon suspects and longon suspects are longon s the London spectacular some-what hastily, in anticipation of a June election. If so, ammunition will have been

But a plan is a plan. London it is. So, borrowing Yankee flair, Mr Kinnock will travel down the Thames through this morning's early mists. He will be accompanied on a pleasure boat by Glenda Jackson, Melvyn Bragg and other

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actors and TV personalities, not to mention the star of London borough government, Mrs Margaret Hodge of Islington and the ALA. (It is not clear how many other Cleopa-

tras will be on the barge.) With half a dozen members of his shadow cabinet in attendance, Mr Kinnock will announce that Labour proannounce that Labour pro-poses to create a new "slim-line" strategic authority to run London. It will be elected. Its sources of finance will, I suspect, be obscure. To give it initial clout in Whitehall, par-ticularly on transport and road planning, a minister for London may be in charge. This is apparently preferred to an elected mayor, which to an elected mayor, which some want. "It's not Clint Eastwood that London needs," says Mrs Hodge. "It's the fistful of dollars." Bereft of locally-raised finance, any local authority is more likely to produce David Dimkins.

'We don't need Clint Eastwood we need the fistful of dollars'

What would this Greater London Authority do? Very little, and a lot. As I understand it. it would not take over London regional transport, but set itself up as a regulatory agency, overseeing invest-ment, fare and safety policies. It would not build houses or run the schools, although it would assume responsibility for post-16 education. Even the fire brigade may not be managed, merely regulated. Control of the police could be transferred from the Home Office. There would, however, be a great deal of regional strategic oversight, and much is likely to be said about pro-viding a voice for London. The natural riposte is that Labour is merely bringing back the Greater London Council. That would be truly awful. I fancy that it was in these columns that the first call for the abolition of the wasteful, hopelessly bureau-cratic GLC was aired; we are all better off without it. But Labour knows that. The GLA, if that is what it is to be

named, will be promoted as something much less formida-

ble than the GLC, let alone

the old London County Coun-cil, which Herbert Morrison made into a personal power base and the home of municipal socialism in the 1930s.

Suitably circumscribed, an elected authority that can speak for London is highly desirable. Paris is promoted by President Mitterrand himself; Glasgow and Birmingham have benefited from a nurturing of the civic image. London is a series of orphans. All that has spoken for these lonely boroughs since the GLC closed down is something called a residuary body. If it is to remain the financial services capital of the European Community London needs to become a place in which people who are rich enough to choose want to work. That means putting more money into transport and more thought into the conservation of the capital's built heritage, its new devel-opment plans – and its image. The old City corporation with its preposterous Lord Mayor might be preserved in showcases along with the Tower of London, but it should not be an island of antiquated guild gover-

nance within any new GLA.

The Tories could have preempted today's manoeuvre. It is all there in Labour's plans for regional government, printed and launched many times over. There is, however, a well-founded Conservative suspicion of London-wide councils. They have a defect: Labour tends to win control over them. That is to the good. It is essential, in our centralised elective dictatorship, to establish local, alternative, centres of power. But none of this is part of contemporary Conservative thought. So Mr John Major busied himself yesterday with an attempt to set his own politi-cal agenda, initially on national education policy. That is the subject of discussion elsewhere in these pages. Tactically, he may be right to keep off London-talk this week. Yet the Conservatives would be better-placed if they could learn to outflank Labour's easily predictable manoeuvres. It is far too soon to start joining the distant chorus heralding a Labour triumph. That may never come. But if political strategy is to be the determinant, General Kinnock is well in the lead.

LETTERS

Why the pay game has now changed

for the established system

Sir, Your editorial on Friday ("Fiddling while the jobs go") hit the nail on the head strongly and accurately. The game has now changed, and gains in real wealth — either in terms of a company's prosperity or the level of its employees' pay - will now bave to depend on maintaining or improving unit costs relative to overseas competitors.

There can be no place today

Incidentally, recent pay awards in the public sector suggest that the government has bardly come to terms with

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where future pay is either set by shadowing the inflation of previous 12 months, or in relation to some notional "going rate" of increases. The persistence of these tra-ditional attitudes will cause both severe unemployment and major corporate distress.

decision to enter the ERM has brought. As you rightly say, both co-ordination and leadership in pay bargaining is essential given the severe difficulty for any individual company or organisation in changing the system on its own.

> The Weir Group. Cathcart, Glasgow

Backing for IFC in financing developing countries

From Mr Karl A Ziegler. Sir, your leader "US versus the World Bank" (May 13) sets out a balanced argument for US support for a major capital increase to the market orien-tated activities of the banks' international Finance Corporation affiliate.

In my own experience in international banking, the IPC's support for the creation of indigenous national capital markets and co-financings between itself and private banks and companies have helped many developing countries to be weaned of depen-dency on development aid. These countries have been assisted into credit-worthiness - surely the best incentive to attract back their own nationals' often considerable "flight capital" into internal invest-

The bank itself should more aggressively support these moves away from aid dependency by more forcibly demanding "good governance" and accountability in their client states. The recent Joint IMP/World Bank Development

Committee memorandum discrediting "excessive military expenditure" (often signif-icantly higher than domestic health and education spend-ings) is a positive step in this direction.
The bank's guiding princi-

ples of lending more and more to government agencies annually and counting on "trickledown" effects to the poor, has simply not worked. Borrowing billions in the world's capital markets at lowest rates, based on its rich sponsor-induced triple A credit rating, simply cannot be justified in future, when the bulk of these funds are lent onward to

non-self-liquidating mega- projects, often unsuited to developing economies and often rid-dled with adverse social and environmental side effects. The bank's overall goal should be to make itself redundant - by encouraging govern-ments to be open, accountable

and creditworthy. Karl A Ziegler, 6 Bradbrook House,

From Sir William Ryrie Sir, I greatly appreciate your support for a substantial capi-

tal increase for the Internationa Finance Corporation, the private sector affiliate of the World Bank (your leader of

Allow me to correct you on one point, however. The leader says that the "performance of IFC's loan portfolio has been weak." This is certainly not the case. IFC enjoys a triple A rating from the New York rating agencies and one of those agencies, Moody's, recently reported that: "The financial performance of IFC's loan and equity portfolio has improved steadily and is now at a very sound level." Our non-accusal rate this year will be about 4 per cent, a truly remarkable performance considering that we lend only to companies in third world countries.

Sir William Ryrie executive vice president International Finance Corporation 1818 H Street NW

Electricity price burden that hits large users

From Mr Doug Rodger Sir. The article by Juliet Sychrava on the annual report of the Office of Electricity Regulation (May 15) may give an accurate summary of the report's contents, but the headline – "Power prices fall by up to 15 per cent for big custom-ers" – is misleading. The price reductions in ques-

tion occurred in the second quarter of 1990. Because this was not made clear, it might be assumed that the statement referred to the recently com-

"up to 15 per cent" are, in fact, the smallest users within the contract sector. For the really large users the outcome of the 1990 price negotiations was typically a reduction of 8 per cent, and the recent negotia-ting round has resulted in increases of 15 to 25 per cent for this group of customers in

England and Wales. Over the four-year period since 1967 large users of elec-iricity in England and Wales have suffered a 40 per cent increase in prices, while completed price negotiations.

The "big" customers which obtained price reductions of cent in Germany, up 5 per cent in France and up 1 per

cent in the Netherlands. This association welcomes the price reductions obtained by the smaller industrial users, but competition in electricity supply cannot be said to be working well until the new regime offers prices that allow its largest customers to compete on an equal basis with their overseas competitors. Dong Rodger.

Business Development, Chemical Industries Association, Kings Buildings, Smith Square,

Sound advice

From Mr David Blake

Sir, The Treasury seems to have had no success so far in finding a new chief economic adviser to replace Sir Terence Burns following his promotion to permanent secretary at the Treasury. I suggest that it adopt the system imposed on

Applications should be invited from candidates, who would be required to pass a "quality threshold" (for example, six O-levels, pass degree in transport economics, Nobel The post would then be given to the candidate who, in a sealed bid, indicated that he would take the job for the lowest salary, or make the biggest payment to the government. This would reduce public spending and remove any sug-gestion of arbitrariness about allocating the job. It would also be a statement of confidence by the government economic service in the technique the government is using in the television industry, thus rebutting the criticism this has

attracted. David Blake, 42 Wilmington Square WC1X OET

Britons in Iraq From Mr M C Lowe.

Sir, Your editorial, "Protecting iraqis" (April 29), should also have added "and UK citizens". One UK citizen, Ian Richter, has been in a Baghdad prison for five years on trumped up allegations of corruption while working on a clean water system for Bagh-dad. Another, Douglas Brand, imprisonment for alleged spy-ing. He was abducted while helping to clear the Shatt al Arab waterway of mines.

Before there is any talk of resuming any kind of relation-ship with President Saddam Hussein's regime, the British government and British industry should demand the return of these two fellow citizens. M C Lowe

managing director, Schaffner EMC, Headley Road, Woodley, Reading, Berks.

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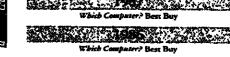




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coping with a range of vastly different reporting and analysis requirements which make it our choice as best buy".

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FINANCIAL TIMES

Tuesday May 21 1991



Tokyo strives for harmony with Brussels

Economic disputes will complicate the EC president's visit, reports Stefan Wagstyl

R Jacques Delors is due to arrive in Tokyo tomorrow on the first visit by a European Community president to Japan

for five years. Both sides want the trip to mark the start of a new relationship in which the agenda will no longer be dominated by trade disputes. Politics must figure as prominently as economics, say officials.

Brussels and Tokyo are both concerned that contacts of all kinds between Japan and Europe pale in comparison with contacts between Japan and the US and between Europe and the US.

But Japanese officials seem far more worried about this state of affairs than their European counterparts. For Tokyo, cool relations with Brussels are a reflection of the igno-rance of many Europeans about Japan. As a foreign pol-icy expert in Tokyo puts it: "It's not that we have had poor relations with the EC. For a long time Europeans thought that we simply didn't exist. Now at last they are taking

Brussels sees things in a more hard-nosed way: improved political relations improved political relations have to go hand-in-hand with progress towards economic harmony. At a press conference yesterday, Mr Jean-Pierre Leng, EC ambassador to Japan, said: "Unless we are on the right track (towards solving economic disputes), I see no

West must

reform says

would have as much to lose from a failure of Soviet reform attempts as the Soviet Union itself.

itself from the consequences of chaos in the Soviet Union.

predicting the geopolitical implications of the economic

collapse of a country bristling

with nuclear weapons and atomic power plants. The con-tinued free-fall of the Soviet

economy could also spell ruin for hundreds of western com-panies which depended on

But in the article in Izvestia,

the government newspaper, he dismissed Soviet fears of abdi-

dismissed Soviet lears of abdi-cating the country's indepen-dence by accepting western assistance on conditions agreed with the west.

"Certainly we will have to review our traditional idea of independence based on isola-

tion from the world. We long prided ourselves on our excep-tional nature, without even

beginning to understand that

the gap between the develop-

ment of the Soviet Union and that of other countries was not narrowing but widening," he

He pointed out that the

country had already become so dependent on western imports that its present lack of hard

currency threatened to paralyse several sectors of Soviet

"Today there are all the premises for the appearance of

conditions favourable to a qualitatively new relationship between the Soviet Union and

the leading countries of the world," he wrote.

He cited President Mikhail Gorbachev's landmark agreement last month with the leaders of pine Soulet republics as

ers of nine Soviet republics as

one example of an emerging political consensus within the Soviet Union.

But he warned that unless

the Soviet Union undertook

rapid reforms to produce con-

crete economic results, the

fragile political harmony could

be split asunder by new social

Mr Yavlinsky said he hoped

to complete an outline reform plan by June 15. If agreed by both the Soviet and US presi-

dents, the plan would then be sent to all Group of Seven gov-

ernments a month before their

and ethnic conflicts.

business with it.

aid Soviet

Yavlinsky

By Leyla Boulton in Moscow

MR Jacques Delors, European Commission president, will have left for Japan with the president, will have left for Japan with the advice of Mrs Edith Cresson, the new French prime minister, George Graham writes from Paris. In Tokyo, the EC announced a trade promotion programme, initially budgeted at Ecn 7m-8m. Mrs Cresson, who last week criticised Brussels' attitude to imports of Japanese cars as "laxist", repeated her attacks on

given ammunition to Mrs Crespossibility of real, deep politi-cal co-operation between us."

son. They show that after A sharp reminder of some declining steadily in the late 1980s – to \$20.7bn last year – Japan's trade surplus with Europeans' view of Japan came last week with the applontment as French prime minister of Mrs Edith Cresson, an out-spoken critic of Japanese trade the EC has grown rapidly in the past six months. In April, the surplus with the EC exceeded that with the US for the first time in eight years. Japanese officials blame spoken critic of Japanese trade practices. Mrs Cresson said a year ago: "Japan is an adversary who does not accept the rules of the game and whose overwhelming desire is to conquer the world." Any hope that she might have changed her mind disappeared last week when she said that while

macro-economics for this set-back. The slow-down in the Japanese economy has been particularly noticeable in sales of luxury goods – including French fashions, Italian jewellery and German cars. This is only natural, say Japanese offi-cials, in the light of last year's upheaval in Tokyo's financial upheaval in Tokyo's financial markets. Moreover, continuing strong growth in Germany, boosted by reconstruction work in the former East Germany, has supported demand for Japanese goods in Europe.

Also, a quirk in Japanese statistics makes the picture look worse than it is - art look worse than it is - art imports are classed as coming from the country of the artist's origin, so Europe's exports have been hit by the slump in

Japan's protectionism on French television

Japan was welcome to invest in camera and motorcycle plants in Europe, she said, because those European industries were already dead, but it was not doing so. But the European electronics, computer and car industries must form alliances to avoid

> Impressionist paintings.
> Brussels will not be satisfied with macro-economic answers. It concedes that European com-panies need to do more to break into the Japanese market: yesterday in Tokyo the EC delegation announced a Ecu7-Ecu8m (\$8.3m.\$9.5m) plan to boost exports in five markets food and drink, furniture,

jewellery, leisure equipment and measuring instruments. However, Brussels also wants action from the Japanese government on a host of issues, including better access for financial companies to Japfor imancial companies to Jap-anese financial markets and an easing of barriers to imports of food, leather goods and elec-tronics. Mr Delors said recently that he wanted "a spirit of reci-procity" in economic relations — meaning more market-open-ing moves from Japan. At the same time the EC is

At the same time, the EC is fending off Japanese claims that the economic integration of Europe after 1992 will create a protectionist fortress. The key issue is cars. Japanese car-makers accept that their exports to the Community will

want to make sure that cars made at Japanese plants in Europe will not be restricted. Mr Delors has said that European car companies need to be given time to adapt to international competition.

Japanese officials hope that despite the time that will have to be devoted to these eco-nomic problems there will also be opportunities at meetings between Mr Delors and Mr Toshiki Kaifu, Japan's prime minister, to discuss political

The most important immedi-The most important immediate task in this field is to complete work on a joint declaration on EC-Japanese relations — which would be similar to those agreed by the EC and the US. The declaration would commit the two sides to wide-ranging — sithough loosely. ranging - although loosely-specified - co-operation in many areas. However, progress has been held up by EC demands that it should be accompanied by improved trade relations. Japan's best hope now is that the documen will be signed during the summit of leading industrialised nations in London in July.

In the light of the EC's strong wish to keep pressing Japan on economic issues, it is hard to see how Mr Delors and Mr Ecife can be need to seek

Mr Kaifu can hope to make more than symbolic progress in the political field. But they are starting from such a low level, that even a symbolic first

Zulus agree to curb use of 'cultural weapons'

By Patti Waldmeir in Johannesburg

PRESIDENT F. W. de Klerk of South Africa appears to have won an important concession from Zulu leaders on the carrying of tribal weapons in black townships, paving the way for relations to be rectized between the overnrestored between the govern-ment and the African National

Congress (ANC). Last night, Mr de Klerk and Chief Mangosuthu Buthelezi, leader of the mainly Zulu Inkatha Freedom Party, said in a joint statement after talks at Ulundi, capital of the Kwa-Zulu homeland, that they had rying of so-called "cultural weapons" in areas of unrest. The talks also included the Zulu King Goodwill Zweli-

The accord was understoo to include a ban on the carry-ing of spears at political and other gatherings, although such weapons could still be carried at carefully defined "cultural occasions".

Pretoria's failure to impose a ban on spears prompted the ANC's decision on Saturday to boycott talks on a post-apart-heid constitution. The ANC neid constitution. The ARC could still object to the definition of a cultural occasion agreed by Mr de Klerk and Chief Buthelezi – but yesterday's accord should form the basis for a deal between the

ANC and government.
Once the two sides have resolved their dispute over cul-tural weapons, the ANC will demand further action from the government to end vio-

The ANC is insisting that it will not agree to enter consti-tational talks until four other areas of disagreement are resolved: over the powers of a planned commission of enquiry into violence; over the disciplining of police officers involved in township killings; over the disbanding of counter-insurgency units; and over the organisation's demand that two security ministers be

The ANC's boycott of consti-tutional talks is largely a symbolic action and is likely to lead to no major setback in the already protracted peace pro-cess: constitutional negotia-tions have yet to begin in any case and no progress had been expected before the ANC elects a new leadership at a confer-

ence in early July.

The ANC's decision to stay
away from a peace summit
planned for later this week is more significant. The organi-sation's leaders reject the con-ference because they say the government's own police force is a major belligerent in the

violence. Land claim decision, Page 6

Air of futility descends upon talks over future of N Ireland By Ralph Atkins in Belfast

when she said that while Europe was open, the Japanese economy was "hermetically

In public, officials at the Jap

anese Ministry of Foreign Affairs said they would have to see whether Mrs Cresson's bite

was as bad as her bark. In private, they are apprehensive.
EC diplomats said that Paris did not speak for Brussels.
"She is one voice among 12," was one view. Nevertheless, Mr Delors should not be surprised

if he is asked more questions about Mrs Cresson's impact

than anything else.

Recent trade figures have

"THERE is a way out of this impasse," rasped the Rev Ian Paisley, the voluable and monumental leader of Northern Ireland's Democratic Unionist Party. He was dressed in an elephant grey suit with waist-coat as he stood beside his car

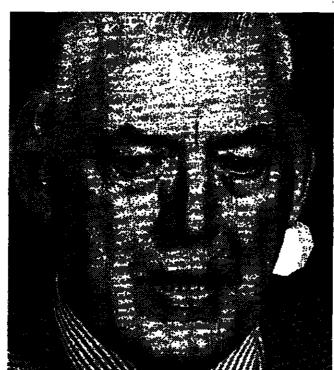
MR Grigory Yavlinsky, the economist who is trying to bro-ker a western-assisted reform package for the Soviet Union, has warned that the west outside Stormont parliament buildings near Beifast.

He insisted that the ultima-tum set by Mr Peter Brooke, Northern Ireland secretary, should be withdrawn. "It is an ultimatum agreed with Dublin; Mr Yavlinsky, who is cur-rently in Boston to draft an outline reform plan with Har-vard economists, said in an article published yesterday that the west could not isolate it is Dublin's ultimatum," Mr Paisley said, hardening his 'a's so his last word grated with menace. Mr Paisley was being simplistic – and knew it.

There were no easy solution yesterday to the improbable which wrecked Mr Brooke's talks initiative. Instead there were lengthy, inconclusive, bilateral meetings to clarify what had been agreed at last week's meeting between Unionist lead-ers and the prime minister. An air of futility has descended over the grandiloquent but lit-tle used parliament buildings at Stormont – a symbol of the

past pretensions of Northern ireland's political leaders. The dispute is over Mr Brooke's proposals for the sec-ond stage of talks, when the government of the Irish Republic will enter negotiations. Who has a veto over the independent chairman? Where precisely will they take place in Northern Ireland? How much has to be agreed before the first strand of talks - on a devolved government - can proceed? The nationalist Social Democratic and Labour Party was deliberately reticent - as if confident of the Unionists proving their own worst ene-

"Hope springs eternal," said Mr Seamus Mailon, deputy leader of the SDLP. Their position was the same as it had been before the Unionists' Mr John Major, Britain's prime



Rev Ian Paisley: no easy solutions

Mr Paisley and his ally, Mr James Molyneaux, leader of the Ulster Unionists, had arrived far earlier than required, showing their will-ingness to embark on the "round-table" talks. Their strategy, at least in the eyes of opponents, relies on bluster opponents, renes on huster and cunning to put the blame squarely on other participants. "There will be a lot of hard work being done here," said Mr Molyneaux without a hint of irony. "We will not be hanging about, we have business to do." Mr Paisley added: I expect to be talking to whoever wants to talk to me." - an unlikely comment in any other context from someone so strongly pposed to powersharing. Inside, a frustrated Mr

Brooke chaired meetings first with the SDLP and Alliance Party, then with the Unionists And then with the SDLP and Alliance parties once more. Church and political leaders have expressed dismay. Mr Bill McCourt, chairman

of the Northern Ireland Con-federation of British Industry and the two primates of All Ireland joined others in signing a statement saying: "Many would regard it as demonstrat-ing a sad lack of commitment if the participants were unable even to devise adequate proce-dures for talks." There were reports, too, of security forces talks collapse. But not even an alliance of industry, the mili-tary and the church can change fixed minds.

fearing a surge in terrorism if

Chernobyl study rejects illness reports

Continued from Page 1 studied 28 Soviet settlements which had been contaminated to different degrees with radioactive failout, and seven uncontaminated settlements as controls. They covered areas in which the population is offi-cially put at 825,000.

The project involved nearly 50 missions to the Soviet Union and what the report calls open and frank conversations with authorities, scientists and especially local citizens that greatly helped the interna-tional experts' understanding of the situation".

The main conclusions of the report were: • That it could not directly

to radiation exposure, and there were no indications of an increase in the number of cases of leukaemia or cancers; That there are significant health disorders - not related to radiation - both in areas contaminated by fallout and in

uncontaminated by fautout and in uncontaminated areas; • The populace suffers wide-spread worry and stress, which the study puts down to high levels of uncertainly and the threat of evacuation; The early actions of the Soviet authorities were "broadly reasonable" and in line with international guide-

lines;
• Protective measures taken or planned for the longer term appear more stringent than the

experts believe is strictly necessary;
• Official procedures used by
the Soviet authorities for estimating radiation doses were scientifically sound;

 Measurement and assessments made by the study group generally corroborate official figures for fallout. The report says the size of their task became clear when

an international expert team first interviewed people from the three republics in Kiev: "Anxiety about children's health and worries over the adequacy of the government's proposed measures for limiting the radiation exposures over their lifetime dominated the

The shrinking of Walker's assets

Brent Walker's ghastly full-year figures will not in themselves determine whether a business with net debts of well over £1.2bn is about to go under. That is a matter for the banks, which will not get a sight of the group's propose financial reconstruction until later today. But the figures afford certain clues, none of

them encouraging.
Although net asset value has been written down by £690m to been written down by 1590m to a mere \$139m, there is no guarantee that this is a clean sweep. The directors have put their own valuation on the position of development properties. Had they accepted the figure produced by their own professional advisers, the value would have been \$103m lower. Other properties not for sale or development have not been written down at all. Even on the basis of orderly disposal rather than liquidation, Brent Walker's net worth may well

be less than zero.
Although the proposed finan-cial reconstruction is not yet public, some details can be inferred. It seems clear, for instance, that Brent Walker does not propose to sell William Hill, which is understandable given that it apparently covered its own financing costs last year. Nor does the plan appear to involve swapping debt for equity, the result being that the group will make a loss after interest charges for the second year running. Last year's true interest charge of figom was only two-thirds covered.
The odds in favour of successful reconstruction are

tricky to assess, given that there are some 60 banks involved. Since the group's operating businesses are no better than cash neutral, the process of trading out of trou-ble promises to be intermina-ble. Brent Walker's shares look correspondingly worthless. But the banks have probably come too far by now to contemplate the grand gesture. The likeli-hood is that, like the empire of Mr Alan Bond, Mr Walker's will go out with a prolonged whimper rather than a bang.

Retail sales

It would be bad news indeed for the UK Government if four successive interest rate cuts since February had not pro-duced any perceptible improvement in consumer confidence. at least suggest that the long decline in high street spending may have bottomed out. April's 3.5 per cent monthly fall in volume from the month

Brent Walker Market Capitalisation (Em)

before may have been the largest since July 1979, But it was largely expected after the VAT scramble in March, and still leaves retail sales for the last three months one per cent higher than in the previous

quarter. The question is whether even this gentle rise can be sustained. On the plus side, the sharp fall in headline inflation is boosting the real incomes of the majority still in work. Further cuts in interest rates also look guaranteed, the only question being one of timing. Even if house prices take a while to respond, turnover in housing may recover more quickly, with an immediate effect on sales of consumer durables. But there are some pretty weighty negatives. Rate cuts are slow to work through to mortgage payments, and unem-ployment is set to go on rising even after output picks up. Base rates will have to fall a

long way further to bring a sustained recovery in con-sumer confidence. The problem is that, with underlying infla-tion still stubbornly high, good news on the retailing front may in itself make the authori-ties hesitate in relaxing monetary conditions further.

AB Foods

Mr Garry Weston must be thanking his lucky stars that he won the battle to buy British Sugar. Without its profits contribution, AB Foods 12-month performance would at best have been static. As it was wester profits in the end was, pre-tax profits to the end of March were 12 per cent bet-ter at £317m. At last the group has a way around the cyclical depression holding back its

milling and baking operations. In the three months since tributed £32m of profit, com-fortably ahead of financing costs. Medium-term questions about the European sugar regime mean political risk will

continue to overhang its pros-pects, but there are significant cost benefits to come. It is now strongly cash positive and should help push ABF's 230m cash pile to around 237m by the new year end in Septem-ber, thus allowing further

diversification.

The contrast with milling and baking is instructive. The number of independent millers is reckoned to have fallen by a third last year, but the reduction in capacity merely matched the decline in the market. ABF's profits in this division were flat after allowmarget. As a profits it that division were flat after allow-ing £12m for closing three buk-eries and some redundancy costs. As for an improvement in margins or an end to the price wars, there is no sign of either. Assuming £330m pre-bux for the process of Sentender the for the year to September, the shares at 510p are not expen-sive on a multiple of around 10. The outlook is not particularly exciting; but ABF is doing about as well as its markets

Football clubs

The knee injury sustained by Tottenham Hotspur's start player last weekend is of most immediate relevance to the club's tense financial relegation battle with Midland Bank. But it is also pertinent to Management the start of the company of the c chester United, whose public floration this week promises to raise roughly £17m.

The question is how to value footballers in a club's balance sheet. The two clubs adopt very different styles. Mr Gas-coigne and his team mates at Tottenham are intangible assets, entered at cost. They are then awarded a residual value under rules drawn up by that noted international accounting authority, UEPA, with the difference written off over the contract period. Manchester United, by contrast, writes off its human acquisi-tions in year one, partly because it fears European moves to outlaw the whole transfer fee system. Anxious to persuade investing institutions that football clubs can be conservatively run, the club's intention is to build up a transfer fee reserve in the good years so that spending on the big stars does not affect the

dividend.

As for Tottenham, bedside bulletins would appear to be over the next few days. Even intangible to Lazio for £8m-odd, the real obstacle to survival looks like the club's directors as much as its finan-cial position.

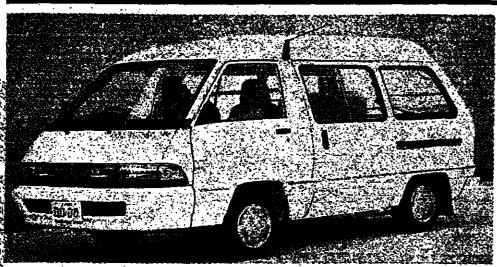
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July 15 summit in London. attribute any health disorders WORLDWIDE WEATHER

CAR OF THE FUTURE

Tuesday May 21 1991





Environmental issues will be as important as technological

advances in shaping the car of the future.

writes John Griffiths. Concern has 🖦 🎎 grown over exhaust emissions as more vehicles take to congested roads. Will new solutions be found to ease traffic flows?

Target for a health drive

CONCERN about atmospheric pollution, global warming and traffic congestion, allied to sombre images of Kuwait's burning oil wells, ensure that future cars will be chaped as much by legislation as by conmuch by legislation as by con-sumer preferences. Memories of fuel queues in

the 1970s oil crises proved short-lived. The world's car industry quickly found itself catering to the demands of motorists reverting to old hab

its of concentrating on style, comfort and performance, rather than energy saving or exhaust emissions. As a result, the considerable strides the industry has made in weight-saving, "alippery" serodynamics and engine efficiency have been partially

obscured by consumer demand for better equipment and trim, so that most cars are as heavy

continued to duck the measure that could most readily curb the world's most profligate vehicle fuel users — a gasoline tax lifting the current \$1 a gal-lon closer to the \$4 level paid by most of the world.

Yet California, in particular

is providing the main catalyst for change in the car of the future, at least in terms of air polintion and the controversial

issue of global warming.

From 1994, under Californian
state legislation, the percentage of vehicles with drastically reduced exhaust emissions reduced exhaust emissions aust rise every year under a programme lasting until the year 2010. In 1984, 10 per cent of cars sold must be "transitional low emission vehicles". From 1995, "uitra low emission vehicles", must start empering riom 1995, "inits low emission vehicles" must start appearing and from 1998 2 per cent of sales must be of battery-powered cars, rising to 10 per cent by the year 2003.

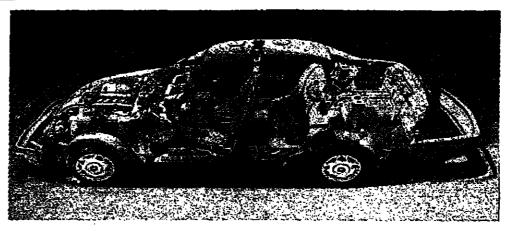
That means around 100,000 electric vehicles a year and the birth of a new industry.

These standards are simed at sharmly reducing the carbon

These standards are aimed at sharply reducing the carbon monoxide, hydrocarbon and nitrogen oxides emissions which often reduce Los Angeles air to atmospheric soup. Their technical feasibility remains uncertain — even allowing for the ritual protests of an industry faced with spending billions in attempting to comply with them.

Yet their effect, and the motor industry's uneasy

motor industry's uneasy awareness that where Calif-



Cruites at up to 85 kph for more than 100 kilometres on its nickel cadmium battery pack. BMW's new 3 Series (above) points the way to easier recycling

world tends to follow, is to set

world tends to follow, is to set manufacturers hunting hard for cost-effective technical and engineering solutions.

Many will be made possible only by yet more intensive use of electronics, a major growth area for vehicle component webcare and proposition less than the component area. makers and specialist electronic groups. The continuing integration of the car's various systems, such as engine mansystems, such as engine man-agament, suspension and even steering under central elec-tronic control will have made the "intelligent" car a market reality by the year 2,000. Engine research is remark-shle in the vertety. Togethe for

able in its variety. Toyota, for example, has a 2.5 litre, super-charged diesel engine capable of hurling a limousine around a test track at over 100mph. It

saving (above) and Toyotz's 8-2 supercharged, two-s diesel engine (right) which, the company says, holds

emits only about a third the level of nitrogen oxides – the culprit in acid rain – of con-ventional engines.

ventional engines.

Also being developed are "flexible fuel" engines running on petrol or "cleaner" fnels such as methanol, two-stroke petrol engines less than half as big as conventional four-strokes, and even gas turbines.

All, however, have their drawbacks and none is certain of meeting all California legislation at viable cost. Diesels, for example, are economical example, are economical and cleaner than petrol engines — except for almost certainly needing traps to cap-ture tiny particles suspected of

causing cancer.

Electric vehicles offer the biggest challenge of all,

because of current batteries' inability to store large amounts of energy. Ricardo Consulting Engi-

neers, the UK engineering con-sultancy, may have the suswer: on-board batteries and generator, partially powered and recharged by a small die-sel engine. It would be driven by electric motors in each wheel, with the brakes forming an integral part of the motor and generating top-up power. The main disadvantage -

the heavy, unsprung wheels ruining ride and handling – can be overcome by component

ministurisation, says Ricardo.

Some industry figures doubt
the value of much of this effort. US makers argue that the \$600 a car needed margin-

ally to refine catalytic converters, under the latest US Clean Air Act, would be better spent tuning up older cars, which account for about 85 per cent

of vehicle pollution.
Dr Heiko Barske, Volkswa-gen's research chief, also suggen's research chief, also sug-gests that Americans would be much better off "driving one litre cars, not four litres". What particularly annoys him is threats to impose draconian fuel economy targets on the industry, "and yet, when a Golf is perfect for driving around the city, these same politicians are all ordering the new S-class Mercedes which consumes 22 litres per 100 kilometres".

litres per 100 kilometres". In the mid-1980s, VW tried to launch the Eco-Golf, fitted with electronic clutch. When stationary, the engine automatically switched off, restarting automatically if a gear was reengaged. Since most urban exhaust pollution is generated

exhaust pollution is generated in traffic jams, its benefits were obvious. Yet motorists were unwilling slightly to alter driving habits. VW will try again next year.

With the world car population expected to increase by about a third to 500m by the year 2025, car makers must run hard just to stand still in terms of pollutants. Dealing with traffic congestion will also be a major challenge.

Integrated traffic information systems will help to keep traffic flowing freely, but only marginally because easier traffic flows simply create more journeys.

Such systems are already in



IN THIS SURVEY

🖿 Plastic composites: GM's \$4bn path New projects: cleaning up the engine Page 2 Transmissions: nearest thing to a breakthrough Tyre technology: ideas slow to take offPage 3 MEurope: 'lean' rivals and pollution pressures Tomorrow's materials:

M New technology: elec-tronic controlPage 4 M Design consultancies: backroom boys keep quiet It Road safety: UK leads ■ Related surveys ..Page 6 Editorial production Gabriel Bowman

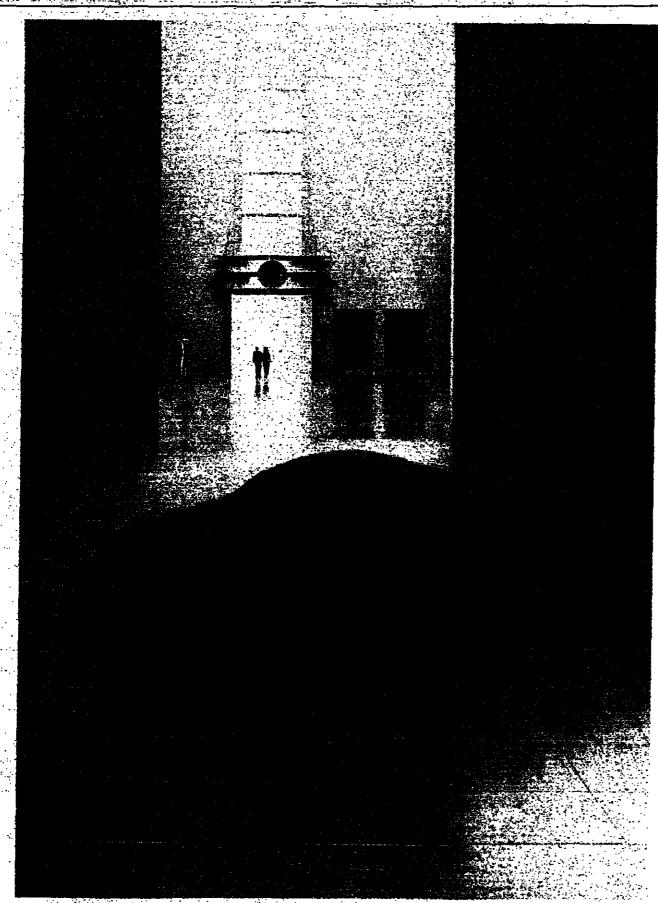
pilot use in the UK and Ger many. Apart from route guid-ance, eventually they will provide localised information, via in-car terminals, such as whether and where there is a parking space free at the driv-er's destination area, the time between trains and so on.

safety and how to haive Europe's traffic fatalities, are at the heart of Prometheus, an EC motor industry research programme on which some 300 scientists are engaged.

scientists are engaged.
Several years on, it has found no instant solutions.
"Yet it has been successful in that it has made clear all solutions are likely to be long-term," says VW's Dr Barske.
As just one example, inde-

pendent groups had previously been working on systems capa-ble of "seeing" through poor visibility, and thus providing drivers with a potentially valu-able safety aid. One was based on infra-red, the other on ultra-violet. Thanks to Prometheus, it is now known that an effec-tive system must use both.

Controversy continues on other Prometheus aspects such as whether motorway "convoys" can make better use of available road space, with the space between cars con-trolled electronically, not by drivers. That is technically feasible, but some companies, including BMW, have already made clear their resistance to anything but an advisory system — partly because of product liability issues involved.



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John Griffiths looks at the extensive Saturn project in Tennessee

GM's \$4bn plastics path

WITH THE launch of General Motors' \$4bn Saturn project last year, plastic composites reached a new threshold in terms of their use in volume car applications.

The Saturn cars, built at a greenfield

site in Tennessee and aimed at rivalling Japanese cars for quality and cost, break new ground in having bodies made up of thermoplastic vertical panels hung on a steel spaceframe, instead of a conventional

steel monocoque.
No less significantly, Saturn capacity unlikely to be used immediately because of the depressed US car market - is 330,000 cars a year, an unprecedented volume for a vehicle making such extensive

use of plastic composites. Yet Saturn is only the latest of several vehicles to make extensive use of such materials to be developed by GM, which to date has shown by far the greatest commitment of all vehicle makers to exploring the possibilities presented by plastics.

It also has in production a range of multi-purpose leisure vehicles, such as the Chevrolet Lumina minivan, which uses plastic body panels on a steel spaceframe and capacity for which is over 200,000 units a year. The Lumina is a successor to the Pontiac Fiero mid-engined sports car of the mid-1980s, whose plastic-clad body reached a peak production of around

100,000 units annually. Saturn differs from its predecessors not just in volume, but in having its panels made of thermoplastics rather than ther-moset materials. The differences are fundamental. Thermosets take longer to pro-cess and when the vehicle's life is over, the panels can only be chopped up for road fill or other low-grade uses, or burned to

create energy.

Thermoplastics allow shorter cycle times to produce components, and can be melted down and reused, although usually

also in lower grade products.

Yet even the most ardent advocates of the use of plastics in vehicles, notably the large chemicals groups themselves, are not suggesting that the car of the future will consist primarily of composites, with metal reduced to mechanical roles.

GM, starting with a completely "green-field" project, has been able to maximise the advantages of composites to an extent to offset the still severe disadvantages most notably slow cycle times to produce

components and cost. Thus the Saturn project has gained from the lower tooling costs to produce plastic panels compared with stamping steel, reduced lead times, the ability to mould in one piece a complex body part which otherwise might require the welding together of four or five separate metal pressings and – as a result – actual reductions in component costs.

Other bonuses, to be felt in the marketplace, include increased resistance to damage and corrosion and - because of cheaper tooling and construction techniques - the ability to update models with greater frequency more cheaply.

So far, GM's main rivals show little intention of following it down the same path. They remain unconvinced that the benefits are worth such a large-scale effort and are adopting a "wait and see approach on how the GM products fare. Similar caution is being shown by the idustries of Europe and Japan. Renault is the only major manufacturer to have developed a plastic-panelled vehicle in

anything approaching high volume Even ardent advocates do not suggest cars will consist

primarily of composites

around 60,000 units year - and the vehicle itself, the Espace multi-purpose vehicle, is relatively expensive. In Japan, Toyota and Mazda are among manufacturers suggesting that there is a long way to go yet before plastic bodies seriously rival steel. A key extra consideration for the European and Japanese industries is the much higher cost, by comparison with North America, of the main raw material for

plastics, oil. The prospect of a plastic composite body completely supplanting steel, to which engine, gearbox and other major compo-nents would be mounted directly is even

more remote, acknowledges Dr Claude Fussler, vice-president, automotive materials, of US chemicals giant Dow Europe.

However, Dr Fussler and others in the industry do envisage continuing steady inroads by composites in a number of arress. One such exemplified in the personnel. areas. One such, exemplified in the new BMW 3 Series, is the substitution of the metal bumper girder by much lighter com-posites, with a saving of around 15 kilogrammes at each end of the car.

Composite valve covers are continuing to replace those made from steel and aluminium. More significantly yet, work is well advanced on structural composites for use in load-bearing components at the end of the 1990s. These include engine supports, cross-members and similar items - many of which can also be produced as a single part instead of fabricated from a

GKN, the UK engineering group, has been supplying truck springs made of lightweight composite materials for some years. With composite road wheels, likely to weigh less than half of their steel equivalents, also in prospect, calculations made by Dow suggest that the use of composites could cut the weight of a typical European car by 175 kilogrammes — including the "knock-on" effects of being able to use

lighter metal components – without resorting to an all-plastic body.

This would produce significant "wholelife" energy savings compared with a conventional car, if reduced engine in manu-facture and improved fuel consumption

A possible catalyst for the speedier introduction of plastic-bodied cars may come in the form of Californian legislation come in the form of Camornian requiring a percentage of cars on the roads to be battery-powered by the late 1990s. Manufacturers of such vehicles will be keen to compensate for heavy battery weight by using the lightest bodies possi-ble. The plastics industry is already engaged in tentative talks in this area with potential electric vehicle suppliers.

The problem remains of how to get plas-

component cycle times down.
With reaction injection moulding, times for some large components like front wings are already down into the 50-53 secwings are already down into the 50-53 second bracket — still an inordinately long time compared with the few seconds to stamp sheet metal. It is possible to compensate partially by replicating the cheaper plastic tooling. There are limits, however. Doubling up would be economical but a third plastics line would be more expensive than one metal stamping line.

Nevertheless, the industry claims itself to have been very encouraged by the outto have been very encouraged by the out-

come of the Saturn project so far.

Part of the plastic industry's reason for optimism about the long-term prospects is also the appeal of the material to vehicle designers, and the greater flexibility of approach offered compared with steel

Recycling, however, remains a problem for neither thermosets nor thermoplastics have the easy recyclability of metals, vir-

have the easy recyclability of metals, virtually 100 per cent of which are already recovered. "There is a lot of work still to be done," acknowledges Dr Fussler, "but we are making progress."

Bumpers, for example, are already being virtually completely recycled, with new bumpers simply moulded from the old with little addition of new materials. Exactly how many times this can be done. Exactly how many times this can be done, however, remains unknown.

be required by law to pollute less - including noise as well as exhaust emissions - and travel much further than now on a gallon of petrol or diesel.

vehicle and engine makers to produce power units capable of meeting such demands, and the emergence of new technical approaches to the issue. Many of the projects now

under way, such as an engine with plastic components devel-oped by a European consor-tium led by Ford, are aimed more at investigating design areas such as weight-saving than for commercial production. The "Brite" engine, named after the acronym for the co-operative EC research programme Basic Research in Industrial Technology for Europe, uses metal only for the combustion chambers, cylinders and moving mechanical parts. It generates 30 per cent less noise than a conventional

engine of similar size.
But other radical units, such as the Orbital two-stroke engine first developed by Sarch Technologies of Australia offering more power and about a third the weight of a conventional petrol engine, are intended for production. Indeed Ford, which took out

a licence on the technology some time ago and has been developing it jointly with the Sarich group, says it expects to put a vehicle so equipped on the market before the end of the decade. General Motors has declared a similar intention.

To meet the expected demand, Orbital Engine Corporation (US), a wholly-owned Sarich Technologies subsidiary, is preparing a facility to produce 100,000 Orbital engines a year at Tecumseh, Michigan.

The engine, which lacks valves and has direct fuel injection, is claimed to have 10 per cent more power and 20 per cent better fuel economy than a comparable-capacity conventional engine.
Of potentially greater signifi-

cance, Orbital says it has developed a vehicle for testing by the federal regulatory authorities in the US and which is claimed to be capable of meeting the strictest emis-sions standards proposed for the US for the year 2004 and even California's standards for



John Griffiths on new projects

Cleaning up the engine

Ultra Low Emission Vehicles. Among other candidates – apart from electric power units – are two-stroke supercharged diesela, supercharged two-stroke petrol engines with extremely high power outputs relative to their weight, engines capable of running on a variety of "clean" fuels such as methanol, gas turbines and further developments of the

"lean-burn" engine. Used in conjunction with a catalytic converter, the "leanburn" engine holds out the prospect – according to Toyota – of meeting the stif-fest exhaust emissions legislation at the same time as pro-viding fuel economy.

Even in respect of conven-

tional petrol or diesel engines, work on aspects of their opera-tion holds the promise of significant performance improve ments on all fronts. For example, electronic tech-

nology in conjunction with very high-speed hydraulic pumps is allowing Louis Enginearing, the engineering con-sultancy arm of General Motors' Group Lotus subsid-iary, to develop "active" con-trol of the engine's inlet or exhaust valve operation.

The system, as described by Mr Hugh Kemp, powertrain and systems director, is intended as a research tool rather than a production item for the foreseeable future because of its high cost. The valve is attached directly to a vertically-acting hydraulic pump which, under digital control, can open the valve many times a second to any chosen extent and at any chosen phase of the engine cycle.

What Lotus has created is, in effect, an infinitely variable camshaft. Since it is the camshaft which determines an

torque characteristics. Lotus is equipping itself with a valuable tool capable of short-cutting much "irial and error" traditional engine development.

The system might be seen a The system might be seen as the ultimate development of a simpler approach developed by the Norfolk-based group, in which the engine camshan has two profiles side by-side, with the engine switching between the two for optimum high or low-speed performance. Other "variable" engine parameters being adopted include variable valve timing, and even compression ratios. pression ratios.

Only last month Ricardo Consulting Engineers, the UK engineering consultancy, unveiled a new form of variable valve timing mechanism applicable to any configuration of engine, including multivalve units and those using either pushrod or overhead

camshaft valve operation.

By means of such innovations the motor industry hopes to be able to meet increasingly harsh legislative pressures. In the US these include an expected improvement in mandatory ted improvement in mandatory corporate average fuel economy (CAFE) — the average obtained by the entire range of models a manufacturer has on sale — from the current 27.5 miles per gallon to 34.45 mpg in the period 1995-2000.

A more than halving of currently permitted exhaust emis.

rently permitted exhaust emis-sions of hydrocarbons, carbon monoride and oxides of nitro-gen, coupled with possible attempts to restrict the volume of carbon dioxide — the main gas linked with controversial, and as yet not wholly proven, "greenhouse effect" — is also expected to tax engine development engineers. Currently, under US legislation cars are required to comply fully with emissions standards for 50,000 miles or five years. But a move to 100,000 miles and 10 years is

regarded as inevitable.

Not least, with some countries like Switzerland already imposing "drive-past" noise tests, the industry is braced for similar legislation becoming much more widespread, with a possible requirement for external noise levels to be reduced to as low as 73 decibels (dbA). In subjective terms, this would be about one quarter of the sound level of most existing

MG's Law: "Everything that can be recycled will be recycled." LURGI METALLGESELLSCHAFT AG oterweg 14, P.O. Box 10 IS 01, D-6000 Frankfurt am Main 1 one: (u/v) 159-0, Telefax: (60) 159-2125, Telex: 41225-U mgfd METALLGESELLSCHAFT CORP. 520 Madison Avenue, New York, NY 10022 Telephone: (212) 7155200, Telefax: (212) 7155291/92 NIHON METALLGESELLSCHAFT KK Hibiya Park Building 1.8-1, Yuraku-cho, Chiyoda ku, Tokyo 100 unc: 181-5) 5281-7541, Telefax: (81-5) 5281-7579, Telex: 26684 mgtok

World charges down route to electric vehicles

A MONTH ago, several oddly-shaped vehicles were to be seen not so much winding as whining their way round part of the large complex which makes up Toyota's technical centre and proving ground of Higashi-Fuji, in the shadow of Mount Fuji.

car. a motor caravan and a bus, and they whined because they were powered exclusively by batteries.

They were put on display to European journalists by Toyota as yet one more piece of evidence that the world's motor industry is moving reluctantly, yet resignedly,

Toyota is by no means alone among Japanese vehicle mak-ers in travelling down the "EV" route. Among others, Nissan has developed an elec-tric hatchback, Mazda and Dai-hatsu several light cars and commercial vehicles. Even Nipcommercial venicies, even rep-pon Steel has produced a pur-pose-built battery car with ultra-lightweight carbon fibre body, with lead acid batteries driving electric motors mounted within each wheel, and is looking for partners to develop it further.

As usual in Japan, a consortium approach is also being adopted in some areas, including the development of batteries under the aegis of the New Energy Development Organisation, part of Japan's governmental energy agency.

The consortium includes Japan Storage, part of GS, which is developing nickel-zinc and nickel cadmium batteries; Yuasa (nickel-zinc and sodium-Yuasa (nickel-zinc and sodium-sulphur); Meidensha (zinc-bro-mine) and Farukawa (nickel-iron). Toyota has developed its own zinc-bromide system in house but is using Meidensha

on some of its development.
As with the industries of North America and Europe, the renewed drive inside Japan for more effective solutions to the electric vehicle's century-old problems of low perfor-mance and short range is motivated not so much by a desire to explore new markets as a desire not to be excluded from one – namely California's. Under legislation prepared by the Californian state gov-ernment – and which is sub-ject to bisminal review to

ensure that what is required is technologically feasible — a significant population of elec-tric cars will be required from 1998 as part of a drive to reduce air pollution in the smog-shrouded Los Angeles

smog-snrouned Los Angeles basin, in particular.

The Californian legislation requires 2 per cent of all cars, vans and light trucks sold in the state in 1998 to be "zero emission" vehicles (ZEVs), rising to 10 per cent in the year

Barring the emergence of some unexpected new technology, "ZEVs" can only mean electrically-powered cars — 30,000 in 1988, rising to 150,000 a year in 2003. Manufacturers which do not

develop such ZEVs, and various other categories of low-emission (LEV) and ultra-low emission (ULEV) cars face exclusion from California's Im-

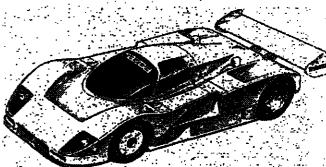
The compensation for manufacturers for the large development spending inevitably involved is that at least the numbers of vehicles required to be sold should generate just enough economies of scale to make such vehicles viable, rather than merely "loss lead-

The world industry is taking the issue seriously, mindful of the fact that Californian environmental legislation has

city council with the support of the region's utilities and clean air hoard, the initiative aims to put 10,000 electric vehicles on the region's roads by 1995, as a precursor to the legislation coming into effect. The city council itself is not buying the ket them to utilities, businesses and other potential

The city council, I.A Water and Power and Southern California Edison so far have contributed more than 17m to the LA 301's development, representing about a third of the project cost. Canadian-built ctric vans are also involved in the initiative. Initial production is to be in

the UK, at a rate of up to 3,000



egions of the world.
The task confronting the industry involves spending bil-lions of dollars. General Motors, Ford and Chrysler recently agreed a programme with the US federal government under which more than \$1.2hn is to be spent over 12 years to develop advanced bat-tary technologies.

Development of vehicles Development of vehicles themselves is proceeding apace. General Motors has already designated a plant at Lansing, Michigan, to manufacture a car based on the impact, a prototype already shown to be capable of up to 100 mph and a range of 120 miles. The plant is due to come miles. The plant is due to come

Ford also says it is "defi-nitely in the EV business for 1998" and next year is to start building a fleet of 100 electric vans to gain manufacturing

Perhaps the most advanced EV project in terms of meeting the legislation's deadlines, however, is being undertaken in the UK, at Worthing. It is a car the LA 2011 which is being m the UK, at Worthing It is a car, the LA 301, which is being designed and developed by International Automotive Design (IAD), one of the world's largest vehicle engineering consultancies, on behalf of Clean Air Transport, an Anglo-Swedish group which has won a contract to supply 3,500 such cars, starting next year, under the "Los Angeles"

operation is expected to move to Los Angeles itself in 1983, with predictions that output of the \$25,000, executive car-sized vehicle — complete with air conditioning — will be pro-duced at the rate of 15,000 a year from the mid-1996s.
Sir John Samuel, the CAT director responsible for the project, says that the LA 301, which is a "hybrid" using a

which is a "hybrid" using a small internal combustion engine to recharge the vehicle's batteries outside of the city centre, will not and cannot be a full replacement for a conventional car.

The thinking is that there are enough wealthy buyers, and three or four vehicle families, in southern California prepared to have a "clean" car see pared to buy a "clean" car spe-cifically for around-town use, reverting to a conventional car

reverting to a conventional car for inter-city journeys.

Critics of the Californian "Ev" drive argue that such vehicles merely more the air pollution problem "upstream", in that if the energy to recharge EV batteries is produced by fosall-fuelish gower stations, there is little or no net gain in terms of the production of carbon dioxide, sees as a contributor to global warming, or polintants such as carbon monoride and hydrocarbons. However, LA officials claim that the extra power station emissions involved would still leave Los Angeles's sir 97

TYRE TECHNOLOGY

Good ideas slow to take off

IT IS possible that the car of the future will run on tyres seen anything yet which colour-matched to the car and makes us want to start a serian injection-moulding machine. When worn out, such thinking goes, they will simply be fed into a melting pot and the material re-injected to form another tyre, perhaps even at the local tyre dealer.

The Stary

A CONTRACTOR OF THE CONTRACTOR

down rol

Such a scenario was being painted with some enthusiasm in the late 1980s by a few companies excited by the properties of polyurethane compounds, and some bloycle tyres and lightweight industrial tyres of this type already

exist.
But for the far more demanding application of car tyres, it remains highly unlikely in the absence of spectacular new advances in both materials and moulding techniques, according to senior tyre industry research and development

executives.
"Obviously, we're staying up-to-date with what's going on in that area," says Mr Barry Alibert, technical director at Pirelli UK. "But we're doing it via subcontracts with third

THE OBSERVATION of one motor industry pioneer that the manual gearbox was crude, but it worked, is almost

as apt today.

A century of continuous development has given us virtually foolproof ciutches and gearboxes which can be shifted with one fingertip but the working principle remains

This century has seen no lack of alternatives. Only two have gained any kind of acceptance in the vehicle world: the conventional automatic transmission and the

continuously variable trans-mission (CVT).

The automatic has been with The automatic has been with us since 1940; the CVT since the late 1950s. Both have been steadily developed. The auto-matic now-comes with electronic instead of hydro-me-chanical control, and with more ratios. The latest Euro-pean and Japanese transmis-

> The CVT has a more chequered history but the units now in production, in such vehicles at the Flat Tipo, Ford Escort and some of their Japa

ous development programme."

Mr Allbert's views are shared by all the major tyre companies, the five largest of which - led by Bridgestone of Japan - account for over 80 per cent of the more than 400m

car tyres produced annually.
From Goodyear's vast technical centre, employing 1,000
R&D personnel at Akron, Ohio. to the intensely secretive labo-ratories of the Michelin group at Clermont-Ferrand in France, the conviction persists that the future of the tyre lies in further development of exist-ing tyre technologies and pro-

Consumers themselves have shown a marked indifference to innovation. The failure of a succession of "run-flat" tyres, blow-outs in case of puncture to win wide acceptance has left buniop and, more latterly Con-tinental, deflated. Whether Michelin will have

more success with another radical project, its "mousse", only time will tell. The concept

from the original rubber-belied Van Doorne Variomatic of the DAF Daffodil. Other transmissions have

Other transmissions have heen suggested but never found acceptance.

The most promising mechanical alternative to the chain-and-pulley type of CVT is the toroidal drive, briefly offered in crude form in the 1930s as a much more scaling. ment, as a much more sophis ticated unit, by the British engineering company Toro-trak, which is part of the BTG

Torotrak prototypes have shown promising results in a range of vehicles and offer the tion of speed and load, enabling the engine to be run as economically as possible. Transmissions do not have to be mechanical at all. The principles of electric and hydrostatic drive have been amply demonstrated in all manner of machinery.

same potential advantage as other CVT systems: the ability to select the exactly correct drive ratio for any combina-

weight compound, rendering it puncture-proof. it has already been proved at the highest lev els of motor sport, Michelin's problem now, still some way from being resolved, is how to adapt it to volume production at acceptable cost.
Another seemingly good

entails replacing the inflated

air inside the tyre with a light-

Another seemingly good idea, twin tyres at each corner, to allow high-performance cornering without the squaplaning on wet roads to which single high performance tyres are subject, has failed to catch on. Audi recently shelved one such joint twintyre development with Goodyear at the latter's Luxembourg technical centre.

The main challenges facing

The main challenges facing the tyre industry are much more fundamental, if less entertaining to the imagina-

Among the biggest is coping with the far greater variety of new models being introduced by car makers. According to Mr Allbert of Pirelli, the range of tyres produced for cars has more than doubled since the early 1970s. With the car mar-

ket continuing to be broken up into more niches at an increa ing rate, the only prospect for tyre makers is to produce yet more tyre types in yet greater variety of sizes. Computerisation and other new technologies are at least

making the task more manageable, with tyre makers building ever larger databases of com-pounds, reinforcements and structures, and how they inter-To some extent, therefore, they can use their databases to

computer "model" a new tyre to achieve the desired characto achieve the deared characteristics, and predict its behav-lour without going through — as in the past — a very lengthy prototype development pro-However, such is the com-

plexity of the dynamic behav-iour of a car on the road and the stresses involved that the need for physical testing remains.
"Noise, we understand pretty

not yet computer-modelled to a satisfactory extent, so the final tuning of the tyre and vehicle combination is still subjec-



A Goodyear design engineer takes the measure of a concept tyre tread at the company's Akron, Ohio, technical centre

tive." says Mr Allhert. Thus probably the final 10 per cent of the performance of a tyre is optimised by skilled drivers on test trucks, in what is acknowledged to be a subjective manner. So intense is the competition between manufacturers that this 10 per cent is definitive - and certainly holds the key to success in the high-performance, low-profile car tyre market, which is the only segment of world tyre sales enjoying significant

growth levels. Outright performance, however, is seen by some leading figures as slipping slightly reduced rolling resistance assuming more importance in the face of pending US federal corporate average fuel economy (CAFE) legislation requiring sharply improved fuel

economy from vehicles over the next decade. The industry's senior R & D figures do not rule out com-

pletely the possibility that tyres one day might be devel-oped wholly by computer. But no-one should really believe it. they suggest, until the indus-try stops using or building test

Even supercomputers, it is suggested, need to progress beyond their present state to be able to create an adequate model for the dynamic behaviour of tyres under stress.

Perhaps the biggest single headache is the development of flexible automation processes capable of building a wide variety of tyres. Traditionally, tyre manufacturing has been a labour-intensive process, with much of the tyre built up by hand because of the many different materials involved. However, equipment increasingly capable of allowing a manufacturer to build a variety of tyres at one assembly station, using a high degree of automation, is gradually being introduced and promises substantial help to ease the cost pressures under which tyre makers are increasingly being placed by vehicle

Pressure is mounting, too, from governments and the EC the tyre industry to come up with proposals for improved recycling of old tyres. The ideal solution to the

industry's problems would be a devulcanising process allowing the tyres' original ingredients to be reclaimed.

In its absence -- there is little indication that such a process will ever emerge - it is expected that there will be further growth in the number of plants capable of burning tyrus in closed furnaces to provide energy for other industrial and

commercial plants. Some other uses are being found, such as tyres ground into granules for road bed filler, and for putting unseen spring into football pitch and

tennis court sub-surfaces. However, these are relatively marginal uses and the Euro pean Commission has invited tyre makers to take part in a working group to discuss for mation of a much more comprehensive programme for dis-posing of used tyres.

The issue is of increasing concern to governments. In the plied by management consul-tants KPMG Peat Marwick McLintock, commissioned by the government, recommends a system of disposal fees as well as "tyres-to-energy" power as "tyres-to-energy" power plants as the best ways of dealing with scrap tyres, tens of millions of which currently occupy landfill sites, gently leeching pollutants into the soil or, even worse, catching

Large-scale tyre dump fires are all but inextinguishable, and have been known to burn

John Griffiths

ALTERNATIVE TRANSMISSIONS

Nearest thing to a breakthrough

has to be mechanical anyway.

Ricciric car enthusiasts time
and again propose vehicles
with the drive motors built
directly into the wheels, only to have chassis engineers remind them that such major additions to unsprung (the groundwards side of the sus-pension springs) weight will

rain both ride comfort and vehicle stability.
Yet without this feature, electric and hydrostatic drives become little more than alternative ways of achieving continuously variable gearing. Hydrostatic drives also suffer considerable noise problems.

It seems likely, therefore, that car transmissions will remain mechanical in princi-

between a multi-ratio gearbox of some kind and a CVT. The choice is not clear-cut. The CVT offers theoretically perfect matching of engine speed to running condition.

But conventional multispeed gearboxes come surpris-ingly close to the ideal curve, especially as the number of ratios is increased. At the same time, engineers point out that CVTs have yet to match the very high overall

efficiency (small power loss) of conventional systems. Above all, perhaps, the industry's product planners have an annoying way of pointing out to enthusiasts for innovative transmissions that low cost and proven reliability remain high on the real world

agenda.

History tells us that Andre ple (heavy trucks may eventually be another matter). The choice which faces the Citroen wanted to give his original Traction Avant a

novel form of automatic transmission. Eventually the car emerged, a year later and far enough over budget to break the company, with an ordinary clutch and manual gearbox.

The pragmatists add, equally infariatingly, that the response of average drivers to the CVTs offered thus far has been lukewarm, to say the

It is certainly true that the number of ratios in conventional transmissions is increasing. The 1970s were an era of four-speed manual gearboxes and three-speed auto-matics. The 1980s saw the widespread adoption of five-speed manual gearboxes and four-speed automatics. Now, despite some misgiv-

ings, we are seeing the appearance of six-speed manual gear-boxes in some high performance production cars,

certainly with us.

This multiplication of speeds has its drawbacks, especially where manual gearboxes are

concerned.

Some market surveys are said to have identified a resis-tance even to five-speed gearboxes among non-enthusiast drivers; and six speeds would certainly cause complaints unless some form of assistance can be provided.

The desire to do so combines well with the feeling in some quarters that driving - particularly in crowded town cen-tres - could and should be to a conventional automatic

It could be that the nearest thing to a breakthrough which we shall see in car transmis-sions will be a realisation of a duplicates the action of a skilled driver manipulating a

skiten driver manipulating a manual gearbox.
Inevitably, electronics is the key to such an advance. The systems now being proposed usually feature not one but two clutches, each of them an electronic servo unit.

Electronic clutches are now well developed. Units developed by the French Valeo group have been run with suc-cess in a number of high performance competition cars and Valeo says it is close to a first production application.
If smooth clutch control can

be combined with accurate shifting of an ordinary two-shaft gearbox, the need to use a much more expensive epicy-clic gearbox, which is a feature of today's automatic transmissions, is avoided and the overall cost would be

Aside from the question of clutches and gearboxes, we are in the midst of an engineering debate about two-wheel-drive versus four wheel drive transmissions.

The development at the centre of this debate is that of

(TCS) which in essence is able to sense a wheel beginning to spin through excess power. just as an anti-lock braking system can sense a wheel beginning to lock through excess braking effort.

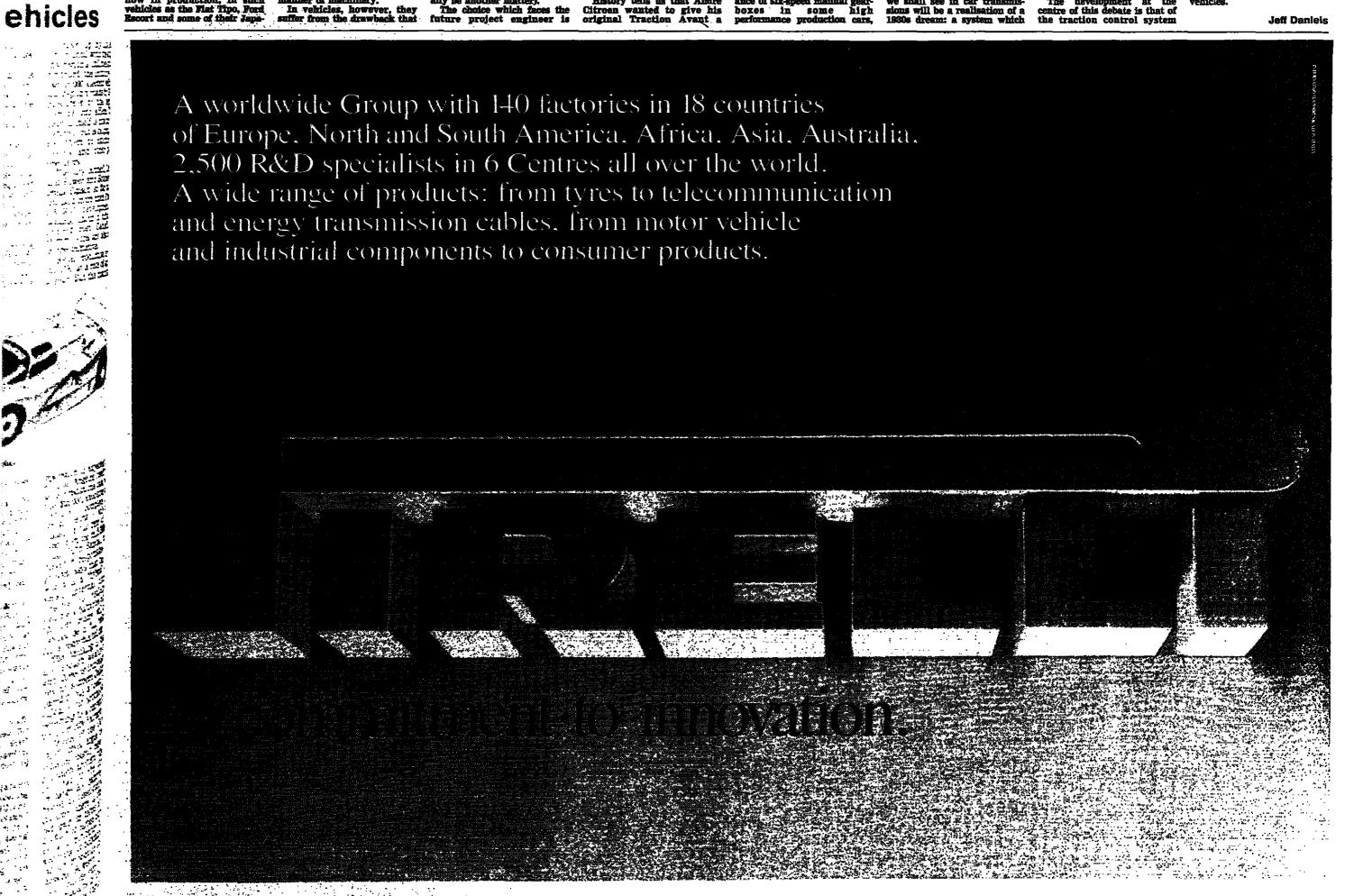
The two systems, indeed, have much in common and when installed together share

the same sensors. The arrival of TCS bas upset the assumption that very now-erful cars would need four wheel drive to prevent frequent wheelspin, with its asso-

clated problems of stability and control. Engineers who were looking (often askance) at the weight, complication, bulk and possi-bly also the extra noise and vibration of four-wheel-drive systems for large and powerful cars have begun to embrace TCs with something like relief.

It now seems likely that four-wheel-drive will in future tions where ultimate traction is most needed: to the most powerful roadgoing sports cars and, of course, to off-road

Jeff Daniels



MR Bruce Blythe, Ford of Europe's vice-president in charge of corporate strategy, is clear about the European motor industry's main concern in the 1990s.

"It's balancing the increased demands for environmental clean-up in Europe, which is going to get much, much stronger faster than any of us think, combined with the new Japanese capacity coming into Europe at the same time." he maintains.

The Europeans are only too aware of what happened when North American makers faced similar pressures a decade or more ago. Meeting US safety, emissions and fuel consumption legislation cost Detroit billions of dollars, just as Japan started planning its transplant-building programme across North America.

US makers steadily lost market share to Japanese models, both imported and those assembled in America. Few expect the Americans, now in deep recession, to regain the ground lost during

Now two of those challenges have d the Atlantic. Europe has to live with increasing concern on environmental matters as Japan builds up its transplant presence.

Richard Feast considers the prospects for Europe in the coming decade

'Lean' rivals and pollution pressures

At the same time, there is the prospect of Japan exporting more built-up cars to Europe after the still being debated, but the quotas are likely to be considerably more liberal as the decade grows older.

This increased Japanese presence brings another kind of pressure in itself. The country's carmakers work on the basis of four-year cycles for all their mainstream models - consid-

Europe or North America. At the same time, Japan's well-established "lean" production allows it to build cars in lower volumes and still remain profitable.

erably shorter than carmakers in

Japanese makers are thus capable of producing numerous niche vehicles - and to renew them frequently. So far, the Europeans are still trying to catch up in this

The combination is likely to prove very attractive to European car buyers, though BMW's chairman warns of a danger.
"The more often you change the

model, the more you reduce the value of the product the customer has in his hands. With each model change, the old range will lose 20 per cent of its secondhand car price," says Mr Eberhard von Kuen-

The other factor working for the Japanese during this time will be the newness of its factories. Greenfield site factories built in the 1990s, whether Japanese, American or European, are simply more efficient than old-established ones. They are designed around today's automated manufacturing methods and equipped with the best low pol-

lution machinery.

However – at least in western Europe - most of the new factories are being constructed by Japanese companies.

The European industry's only comfort is the knowledge that democracy in eastern Europe should offer an escape valve. New car demand in eastern Europe is

The only comfort is that eastern Europe should offer an escape valve

expected to grow by up to 7 per cent a year well into the next century, compared with western European growth of 1.5 per cent.
This level of growth is matched

nowhere in the world except southeast Asia — where Japanese car makers are investing as heavily as Europe's are in the old eastern bloc. Ford's Mr Blythe says: "When the Japanese came to the US, and the

1980s, American makers had nowhere to go. Our market has just expanded by about 40 per cent. What a godsend!

But that is some way in the future. At present, most European car makers are coping with grim market conditions. Almost everywhere but in Germany, new car sales are on the floor.

But while the unification-inspired boom benefits mainly German makers, other European car companies are glad of their German exports since demand elsewhere is so flat. If communism in eastern Europe had not collapsed, the continent's car makers might well have been as badly hit as those in America.

It is against this background that European vehicle makers are facing demands for more environmentally friendly vehicles. They have to meet the industrial and marketing chal-

gestion, noise and pollution that it Even so, and in spite of the preent sales slump, there is an underly-ing public demand for new cars. As the century draws to a close, however, those new cars are going to

possible consumer backlash against

the car, because of the traffic con-

evolve in a different way.

The serious technical emphasis will be on more user-friendly vehicles, not glamorous 200 mph supercars.

As drivers spend more time in their cars, makers will pay more attention to interior design and creature comforts. They will also spend huge sums to make cars quieter and less polluting. The cars will achieve better fuel consumption and there will be more alterna-

On-board navigation systems to

help drivers avoid the heaviest traf-fic will be commonplace. And cars will be designed specifically for case of recycling when they reach the end of their lives.

But many car executives feel their industry has been singled out for special treatment. For example, Dr Kurt J. Lauk, Audi deputy chairman, says: Traffic does contribute to pollution, but on a worldwide basis, traffic results only 10 per cent of the total CO. So somebody else has to find solutions to the other 90

per cent of the problem. By and large, it is the German comparies such as Audi which are in the vanguard of moves to clean up exhaust emissions and to design cars for recycling VW, BMW and Mercedes Benz either have or are planning recycling plants, while Europe's other carmakers are tak-ing a less public stance. Mr Klaus Toepfer, Germany's

environment minister, has even proposed that carmakers should eventually be obliged to take back their old cars and completely recy-

The German industry's size and strength will almost certainly mean their lead will be followed by other members of the European Commu-

NEW TECHNOLOGY

Electronic engine control

EUROPEAN manufacturers, mindful of the ever-rising chalthat it is only by technological advances that they can keep

ahead of the Japanese. When one considers how technically adventurous and enterprising the Japanese are, it may not be a case of keeping ahead as of keeping up. How-ever, every one of the major players on the automotive scene internationally is bent on using what comes loosely under the pompous and over-used heading of technology. By far the greater portion of

new engineering features found on the latest production cars are either electronic or have the wonderful versatility of electronic control to thank for their viability. Electronics - mostly digital electronics -has been responsible for most of the greatest advances in contemporary cars in one

way or another.

The best example of this comes under another pompous phrase – engine man Electronic control of both ignition and fuel injection has tamed and civilised very nearly all high performance engin so that one can potter quietly through town and village even in a Ferrari at low engine speeds without a hint of the spluttering and misfiring that



Jeremy Leng, of the Royal College of Art, with his car for the year 2010 inevitable with a convention-

would have betrayed that car's ancestors of 20 years back.

The flexibility - the ability of an engine to work smoothly over the widest possible range of engine speeds, from peak power rpm down to nearly idl-ing - of many modern electronically mastered power

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patterns, composites, modular assembly and robotisation.

Opportunities for "hyperplants" and "greyfield" developments.

units is astonishing. It is all due to adaptive control of both fuelling and ignition, with electronic control which can refer to a very detailed memory of

settings programmed into it.
In this context, it is good to see some manufacturers at last admitting the existence of high octane (98RON) unleaded petsensing is available, program-ming the system to take full advantage of the more advanced (and therefore more fuel and power-efficient) ignition timing which this fuel permits as well as adjusting the ignition to suit lower octane

fuel when it is used. The new Mercedes S-class uses electronic engine control fully. One most interesting instance is in harnessing the fuelling of the engine to provide a much faster catalytic converter warm-up from cold. Such converters do not begin to perform their job of lowering hydrocarbons, carbon monoxide and oxides of nitrogen until they have warmed up to around 400 deg C, which usually takes about 11/2 minutes

from a cold start. To cut this delay, the control unit briefly richens the fuel/air mixture fed to the engine and at the same time causes air to be injected in the exhaust port, so that unburnt fuel in the exhaust ignites, raising the temperature in the catalyst to operating levels in half the

Variable valve timing first appeared on a production car with an Alfa Romeo engine, using purely hydraulic control.
All the new S-class Mercedes petrol engines use electro-hydraulic control of the inlet camshaft to provide three settings of valve timing overlap, which avoids the compromise

its action being taken over under electro-bydraulic control, and although the throttle pedal remained, throttle action during gear changes was taken over electronically. It worked very well, and is due to appear on an unnamed light van so Valeo, the French rival to

AP, has a similar system as do Fichtel and Sachs in Germany, and Kongsberg Automotive, a Scandinavian company, except that Valeo, having successfully tested on a rally Lancia Delta Integrale, has beaten the rest to the first car fitment, as an option on the Ferrari Mondiale. With further electronic control and via some added fully automatic version of a

fully automatic version of a conventional spur gear manual gearbox is feasible, giving very high efficiency by eliminating the losses of a conventional automatic's torque converter.

Multiplex wiring has already been fitted first to the Cadillac Allante, but Bosch of Stuttgart now has a proprietary extension. now has a proprietary system of its own. A version of it is fitted to both the BMW 850i and the new S-class Mercedes. Basically, multiplex offers a mildly complicated, less expensive way of simplifying vehicle wiring. This becomes signifi-cant in luxury cars, where up to 2 km of cable may be used

in one car's wiring loom. Normal wiring involves wires between fuse, power source, the individual electric load (window motor, lamp, door lock, mirror, rear window heater and so on) relay and the driver's control switch. Multiply by the vast and increasing number of loads in today's better equipped cars, and you have an electrical nightmare.

Multiplex in principle uses a single power supply cable, analogous to the ring main of domestic wiring, feeding all loads, and usually another ring of much lighter control cable, with short radial cables off to a miniaturised solid state "receiver" and switch on each

In charge of the control ring is the master processor, which when a driver-selected command is received, sends a coded signal round the ring which will actuate only the appropriate receiver, switch and load. The same set-up can be used to keep the control unit informed of the status and condition of each load, warning of any failure.
One of the few purely

mechanical advances, for some time proposed but now in pro-duction for Mercedes and BMW, is double glazing of side windows. In the new S-class two 3mm thick panes are separated by a 3mm gap of sealed dry air, giving a claimed 36 per cent reduction in heat loss and largely eliminating side win-dow misting. Noise transmis-sion from outside is said to be reduced by 50 per cent.

Michael Scarlett

Jeff Daniels investigates tomorrow's materials

Ideal sensor sought

IF THERE is an area of vehicle technology which might be said not to have fulfilled the promise it held a few years ago, it is that of advanced materials. To a very large extent, today's cars are built of the same materials which have been employed for many years.

Major parts of engines are still made from that remark-able material, cast iron; transmission casings are more often cast from aluminium alloy to save weight. Suspension components are usually either fabricated from steel or cast in aluminium; so are the whe themselves. In the area of seating we have even seen a retreat to traditional methods of construction (as in the Mercedes S-class), as people have come to regard polyurethane foam as a material which is difficult to recycle and which generates CFCs during its manufacture.

The reasons for this apparent conservatism are clear. Cost and reliability loom large in the mind of every corporate in the mind of every corporate product planner, especially if he is defining a car to be built in its millions. Changing to a completely new material can mean that the already huge cost of retooling to produce a major component must be multiplied several times to cover the replacement of the machines themselves. A furbeen added of late by the huge public interest in recycling, in which metals have the advantage over plastics and compos-

ite materials generally. Even so, pressures remain which cause engineers to look at new materials for a wide range of applications. It is still highly desirable to save weight and to improve comfort and refinement; these are both areas in which new materials hold some promise. It is also true that some new materials can afford major savings in manufacturing cost. This, for instance, is the driving force behind the seemingly illogical interest in the plastic engine.

Plastics are still, probably, the new materials attracting most attention from the motor industry, although ceramics run them close. One aspect of plastics which is not widely appreciated is the sheer range of materials and characteristics lumped together within that catch-all classification. It is certainly an obstruction

to the wider understanding of plastics that they all look much the same and thanks to chemical industry nomenclature, even sound the same to the lay ear, it is only when alternative trade names, such

as nylon or Perspex, catch on appreciated. Yet, recent years have seen many new materials being offered, many of them highly capable "engineering

The engineering plastics materials, such as polysul-phone and PREK (poly-etherether-ketane) are capable of replacing metals in demanding applications where loads and temperatures are relatively high. They cost more than steel or aluminium, but in the right application they save both weight and manufacturing cost, since they can be moulded accurately to shape rather than fabricated, and need virtually no finishing.

They tend also to be less demanding so far as lubrication is concerned. Such plastics

Lean burn catalysts are still being tested. but none will last 50,000 miles

are already replacing metals for components, such as roller-

The appearance of the engineering plastics has encouraged designers to take seriously the concept of the plastic engine. No engine can be all plastic; metal or ceramic matefar as one can tell at the moment) to contain the temperatures of the combustion

Increasingly, however, peo-ple are looking at the idea of the combustion chamber and some other high stressed areas. such as main bearings becoming inserts in a mainly plastic structure. The object is again to take advantage of the savings in weight and manufacturing cost which plastic has to offer. Ford of Europe has already demonstrated an engine which goes a long way in this direction; one of the les sons it taught was that plastics are nowhere near as good at noise attenuation as cast iron. The engineer's problems are. as always, diverse. If plastics still attract atten-

tion, interest in ceramics has waned. After a first flush of interest, engineers have grown wary of the "adiabatic engine" concept which was tried out in Japan, using ceramic compo-nents to surround the combustion chamber and prevent any significant rejection of heat. Turbochargers which need ceramic turbines are no longer so popular, and ceramic inserts parts of some engines now

work perfectly, so where is the need for further development? Even so, work continues on ceramics, above all in Japan. As a family of materials, its most critical applications today are in exhaust system catalysts in which porous ceramic forms the substrate upon which the

actual catalyst is deposited.
One of the holy grails of current materials research is a substrate which combines temperature resistance and mechanical strength to withstand the higher exhaust tem-peratures of a "lean burn" engine, which would permit big savings in fuel consumption. Most of the industry's major laboratories have lean burn catalysts on test, but nobody yet claims to have made one which will last anything like the 50,000 miles

demanded by legislation. Ceramics can also be used in composite materials. While most people think of composites as plastics reinforced by glass or fabric fibres, it is also possible to use ceramic fibres to reinforce metals. This can lead to notable weight savings. Probably the best example to

ate is the metal ceramic com posite connecting rods which have been test-run in Japanese engines with apparent success. Cost remains a barrier, but such components could become critically important if, as some engineers foresee, the main path of engine development is one of ever-higher specific output - squeezing adequate power out of smaller and lighter engines which will, in consequence, be very highly

Yet another area of develop-ment in its earlier phases is that of "intelligent" materials. It is now clear that electronic control systems used in the cars of today and tomorrow are critically dependent on the quality and integrity of the formation they receive from their sensors. Consequently, there is huge interest in new types of sensor which involve no moving parts and which are highly resistant to vibration,

temperature and corrosion.

The ideal sensor, in the eyes of the development engineer, is one that simply sits and relays information on the parameter in question in the form of an electrical signal. Materials already exist which change their electrical characteristics according to load, temperature and other factors; the hunt is on to widen the choice and their range of application. In the final analysis, this could be the most important area of new materials research for the motor industry.

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COVENTRY POLYTECHNIC

Supporting advances in the motor industry

UNTIL QUITE recently, most industry experts looked for two things in their ideal fuel for the future. In the long term, it should extend by one means or another the finite reserves of our fossil fuels.

ally fixed valve timing, allow-ing more nearly optimum tim-ing for a good steady idling, good mid-range power, and

maximum power.
In the diesel field, Volkswa-

gen has just announced a sec-

ond "Umwelt" (environmental)

diesel, this time for the Passat.

diesel, a lightly-blowing turbo-

charger provides excess air at

all power levels, so that full

power can be obtained without

Exhaust gas recirculation plus a simple oxidation cata-

lytic converter are fitted. As

well as reducing carbon dioxide, hydrocarbons and oxides

of nitrogen, the catalyst also

removes hydrocarbons attached to soot particles,

reduces particle emission and - remarkably - by also reduc-ing polycyclic aromatic hydro-

carbon compounds, reduces the worst components of diesel

exhaust's notorious smell.
"Normal" exhaust gas emissions are kept below the strict-

est American limits, while the

proposed German particle

kilometre is comfortably met.
In the transmission field, a

little noted advance may well

alter the way we change gear, and more importantly could

develop into a more fuel-effi-

cient automatic gearbox. Britain's Automotive Products

some years back demonstrated an automatic clutch transmis-

sion system, with which one

changed gear on a standard

manual gearbox car simply by moving the gear lever.

ission limit of 0.08 gram per

generating black smoke.

This implies the study of energy sources which may be alternatives to oil, such as electricity, gas, bio-fuels, methanol and hydrogen. In the short term, any such fuel should help as far as possible to minimise noxious exhaust emissions from internal combustion engines - carbon monoxide, unburned hydrocarbons and oxides of nitrogen.

To those concerns have now been added a third. While scientists seek to discover if the "greenhouse" effect resulting from atmospheric carbon dioxide build-up really exists, their deliberations have been overtaken by public and political We would be foolish, the

popular argument runs, to wait

for proof positive. Far safer to

do something about it now

than to wait 10 years, before discovering that we should have acted then. Thus, concern over carbon dioxide emissions has already joined the concern over "conventional" emissions, and it is becoming relatively more important in the debate over future fuels. The problem is that there

are only two elements which are both abundant and which burn readily and controllably: hydrogen and carbon. Today's hydrocarbon fuels are a mixture of both, in a ratio of about 85 of carbon to 15 of hydrogen, by weight. For anyone concerned with the greenhouse effect, therefore, an ideal fuel of the future would contain less carbon and more hydro-

Such fuels do exist. They are the subject of intense current research and indeed of legislation in the US. By far the most promising of such fuels are the alcohols, ethanol (vegetable-de-rived ethyl alcohol) and methanol (mineral-derived methyl alcohol, most celebrated in the

lay mind as the alcohol which

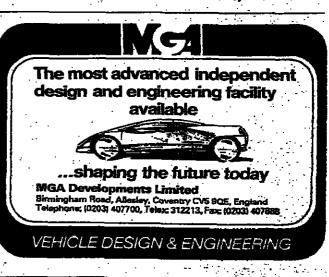
causes blindness).

The appeal of the alcohols is that, while conventional hydrocarbon fuels contain almost six times as much carbon as hydrogen, ethanol contains only four times as much, and methanol a little over three times as much. This has been enough to

encourage the Americans to greet alcohol fuel, and espe-cially methanol, as a great step forward and write legislation encouraging its use into the statute book. President Bush has lent the methanol pro-gramme his public support. The world's major car manu-

facturers have prepared test fleets of "flexible fuel vehicles" able to run on any mixture of petrol or methanol. Yet at the same time, senior engineers in European and Japanese compames have begun increasingly to voice doubts about the wisdom of the methanol pro-

Jeff Daniels



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In the late 20th century, the Earth is forcing stark choices upon its human tenants. Now, the same ingenuity we've shown down the centuries in exploiting the Earth's bounty, must be used to conserve it. Working in closer harmony with the ecosystem is a priority because the Earth, we now fully appreciate, has no replacement parts - nor was it issued with any guarantee.

NO ROOM FOR COMPLACENCY

There are no In the 1990s, the motor industry, perhaps more than any other, is the focus of conserreplacement parts vation anxieties. This is a challenge that Mercedes-Benz acknowledge and

which they have already long been addressing. And today there is no facet of vehicle design, production, or use that is not rigorously analysed by Mercedes-Benz

as they search out and adopt more environmentally benign practices.

Because industrial processes can

be a source of undesirable emissions, an area in which no industrial concern can feel complacent. Mercedes-Benz, therefore, are just as much in the vanguard of those detoxifying manufacturing procedures as they are in cleaning up vehicle exhausts.

CONSERVING BY RECYCLING

...

At Mercedes-Benz, the recycling process begins on the drawing board. Every ounce of steel, aluminium, lead and plastic that can be retrieved from a scrapped car, is an ounce that does not have to be fresh-minted from finite natural sources. Today, nearly 75% of a Mercedes-Benz is recyclable and the proportion is rising because the 'final servicing' of a car - the easy recycling of its components - is now part of the original design brief.

Enormous effort is also being put into lowering harmful factory emissions generally. For instance, the output of nitrogen oxides by the power plant at Sindelfingen, the biggest Mercedes-Benz factory, is, today, just 10% of what it was in 1980. Sulphur dioxide emissions are down to 8%.

WATER-BASED PAINTS ARE BEING PERFECTED

In the early '70s water-based dip priming was introduced in all production. This will soon be followed by a wholly water-based paint process (including metallic finishes) that is already in operation on the SL sports car assembly line in Bremen.

These new paint processes release minimal solvent fumes into the atmosphere.



ENGINEERED LIKE NO OTHER CAR IN THE WORLD

The underbody protection applied to all Mercedes cars is already completely solvent free. And Mercedes-Benz were the first car makers to reject the environmentally damaging use of paint pigments based on toxic heavy

Today, in other parts of their plants, only refillable spray cans are used, so CFC use, too, has been minimised.

metal compounds.

The quantity of fresh water needed to produce each car has been reduced more than five-fold, which means that Mercedes-Benz factories have drastically cut their outflow of waste water. The longer-term plan is to elim-

inate polluted waste water altogether.

Meanwhile, biochemists are working on a process they believe will allow solvent-polluted water to be cleansed naturally through bacterial action.

BREEDING BIRDS ADOPT FACTORY ENVIRONS

As the outflow of emissions from Mercedes-Benz factories grows ever less harmful, there have been rewarding side-effects. For example, trees near the Unterturkheim factory, always



a haven for bird-life, are even more heavily populated these days, as several species adopt the area to breed. Now the factory has installed 600 nesting boxes to help things along.

As early as 1972, each plant engaged its own environment officer, and the appointment of the senior co-ordinator of the company's environmental strategy is important enough to be a Board-level decision. And, since 1987, specialist employees have been trained as waste management and disposal officers.

INVESTING IN ENVIRONMENTAL PROTECTION

Mercedes-Benz embrace with determination their commitment to help reverse present threats to the environment. A further example of this commitment is the fact that a third of the research and development budget for commercial vehicles is invested in environmental protection. Yet another is the cultivation of walnut trees to provide a constant supply of burr walnut inlays for Mercedes car interiors. By farming their own trees, Mercedes have

no need to deplete naturally occurring walnut stocks. Today, the proper protection of the environment is

everyone's business. But Mercedes-Benz also accept that they have a special responsibility for road transport's rapid development, because no one was earlier on the scene than they, in the 1880s. And, in the 1990s, no one can draw on such a vast store of experience.

THE INDEPENDENT design and engineering consultancies play a far larger role in the motor industry than is generally realised. Indeed, without them, the car producing industries of Europe and the United States would quickly run out of new models.

A quick glance along any high street will give some indication of the important contribution the consultants play in producing the cars we drive today. Examples of their handiwork are everywhere: The Fiat Tipo - designed by

IDEA of Turin. ●The Volkswagen Golf convertible - engineered and manufactured by Karmann of

●The Seat Ibiza - with its engine designed by Porsche of Stuttgart.

●The Volvo 440 - a car engineered, tested and manufactured in association with International Automotive Design

(IAD) of Worthing.

And these are only examples for which there is an acknowledged input by the consultancies, which are notoriously secretive about their client

lists. With the possible exception of Japanese models, almost every vehicle on the road today contains some element of the consultants' skills.

It is a business that is likely to grow, even if, like all other aspects of society, consultancy work is suffering the effects of the economic slump.

"The responsibilities are

becoming larger and larger," reports Mr John Shute, chair-

Richard Feast looks at the role of the design consultancies

The backroom boys keep quiet

employer.

More and more assemblers are postponing all but their most vital projects. At the moment, consultants are living a more hand-to-mouth existence on smaller three- or fourmonth projects. They are anxiously awaiting the economic upturn which will give assem-blers the courage to sign off on the big projects.

They know the multi-million pound turnkey projects will have to come if the car makers are to remain competitive in the middle and late 1990s. There is certainly no let-up in competitive pressure from the Japanese, who tend to retain much more of the design and

The consultants also take heart from two trends: towards more niche vehicles and shorter product cycles. Once again, much of the impetus behind these stems from

Their car makers are geared to four-year model replace-ments, compared with the six years at least which have been normal in Europe and North

In addition, lower volume niche products such as convertibles, coupes, sports cars, people-carriers and sports-utili-

MILLIONS

ties, are becoming increasingly popular, as customers demand vehicles that are different from the mainstream.

All these extra models have to be designed, tested and pre-pared for production. And with the assemblers becoming increasingly lean in their operations, much of the work will be contracted out to private consultancies.

Apart from the simple expedient of getting the job done, the other main reason for turn-

Mr Shute began IAD after Vauxhall wound down its engineering centre in England. Today, IAD has a turnover in

excess of £60m, and employs 1,450 people worldwide. Mr John Whitecross, chair-man and chief executive of

man and chief executive of Hawtal Whiting, began with Briggs Motor Bodies and Ford. Today, his company has a turnover of almost £50m and employs 1,140 people in Britain and North America.

The consultants' executivities

Neither is it unknown for an

engineer made redundant by a

carmaker to join a consultancy

An engineer made redundant by a carmaker may join a consultancy only to find himself working on the same project which has been sub-contracted to his new employer

ing to consultants is not diffi-cult to understand. The consul-tants reckon they can do a given job for a lot less money. "It varies, but we believe we can do it for nearly half the price," says Mr Ian Everard, sales and marketing director of Canewdon, one of Britain's medium-size engineering com-

The consultants' specialities vary, but they span the whole gamut of carmaking, from design to legal compliance by way of model making, panel beating, testing and tool design. The trend is for assemblers to reduce product development overheads - manpower - in order to concentrate on the core business of manufactur-

NJECTING

ENGINE

ECHNOLOGY.

don, Motor Panels, Tickford and Ricardo grew as the coun-try's vehicle manufacturing only to find himself working on the same project which has been sub-contracted to his new e declined. More than half Hawtal Whit-ing's work is for North Ameri-can clients — a factor which The heads of Britain's biggest two consultancies started

their careers with big assemmakes it subject to the vaga-ries of exchange rates. "We've learned to live with the high dollar, and we've cut our cloth to suit," says Mr Whitecross. Italian companies such as Ital Design, Pininfarina, Ber-tons and DEA are best known.

tone and IDEA are best known for their styling abilities. But in these days of crash tests, lightweight construction, aerodynamics and manufacturing dynamics and manufacturing automation, styling means more than creating pretty shapes. Today, the people involved are designers, not

such British companies as IAD,

Hawtal Whiting, MGA. Canew-

stylists.
Pininfarina and Bertone also build niche vehicles on behalf of clients. Cabriolet versions of the Peugeot 205 and Vauxhall Astra are examp

In this respect, they compete with Karmann, a company which specialises in the manufacture of low volume models that the big companies find uneconomical to make. Karmann's big client is VW, for which it builds Golf convert-

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TO IMPROVE THE PERFORMANCE OF MANY

OF THE WORLD'S GREAT MARQUES. LIKE

THE FUEL INJECTORS AT THE HEART OF

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AND EXPERTISE TO MEET AND ANTICI-

PATE THE EVOLVING NEEDS OF VEHICLE

AND THANKS TO A SUSTAINED IN-

VESTMENT PROGRAMME IT IS DEVELOPING

COST-EFFECTIVE TECHNOLOGIES TO HELP

MAKE PETROL AND DIESEL ENGINES EVER

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THE BMW S SERIES.

MANUFACTURERS.

ibles and Corrado coupes. Porsche in Germany has long undertaken contract engineering for bigger companies. It can be lucrative work which requently earns as much money for the company as sell-ing its own cars. Porsche's clients range from

Mercedes-Benz, for which it assembles certain sporty saloons, to Lada, for which it helped engineer the Samara hatchback.

It was also the inspiration for Britain's Group Lotus to start offering its engineering know-how to the volume car makers. Now that Lotus is owned by General Motors; many of its clients are GM divisions, though it has worked for Volvo and Chrysler among oth-

More recently, motorcycle maker Yamaha was commis-sioned by Ford of Europe to-design and develop a small four-cylinder engine. Yamaha is known to have previously worked for Ford in North America and Toyota in Japan. But the public will never know to what extent the consultants have been busy because of the extreme secrecy throughout the whole busi-

A large consultant may be working for more than one assembler at a time, and it is vital to maintain the rivals

There is also the fact that most assemblers like to claim their new vehicles as entirely their own. And as the client is picking up the bills, the consul-tant has to remain silent.



Cosworth's MBA engine complies with Clean Air Act rules

Michael Scarlett on accidents

UK leads in road safety

ITS ENEMIES are fond of saying how dangerous the car is. Yet, if one takes into account the number of vehicles on the roads and the distance they cover in a year, it is remarkable that there are not many more serious accidents than statistics record.

German research, which measured the millions of vehicle kilometres travelled for every single traffic fatality between 1970 and 1987 showed safety rising in most of the developed world, with the UK the safest of all by 1987 at 175m vehicle km per traffic death, narrowly ahead of west Germany (160m), the US (150m), and with France (93m), Austria and Italy (50m) trailing.

Traffic legislators, bent on telling Germany that it must step into line and ahandon its lone adherence to no overall

lone adherence to no overall maximum speed limit on motorways, rather than the UK's 70 mph limit and the even lower speed restrictions in the

US, may have to think again.
Since there are more than
100m miles between fatalities
in Britain – even 31m vehicle
miles in Austria and Italy – few of us ever see a fatal acci-dent on the motorway. Never-theless, it is fashionable to see the motor industry as laggards in making cars safer.

There are two sorts of car safety. Passive safety is the more recent discipline, where the designer does his best to protect car occupants from injury in a collision. Active safety is the ability a well-de-signed car gives the driver to avoid a collision - through good brakes, good tyres, good performance, good roadholding and nimble, safe handling.

For most manufacturers with some distinguished excepions such as Mercede Germany, Volvo in Sweden and, to some extent, the old Rover company in Britain - in the drive towards higher passive safety it has been a case of legislators, especially in the US, leading the industry. However, legislation has tra-

ditionally set only low mini-mum standards for active safety. Such cars as the Tri-umph Herald, the Volkswagen Beetle and most early BMWs and Porsches might never have been permitted off the production line if standards then had been as high as today's.

Many companies now exceed legislative requirements on selety. Usually, in the 30mph barrier impact test, the amount by which the steering column can be forced rearwards — not more than four inches under US safety rules - has been comfortably undercur.

And the industry's safety research has shown how existing safety tests may be inade-quate and how to improve them. One example arose in the classic barrier crash test, in which a car is propelled at 30mph into a virtually solid 200-ton wall. This test has been at the core of most passive safety legislation since at least the US Motor Vehicles Safety

Act of 1966. Research into real-life colli-sions showed that the majority of serious cases occurred not when cars crashed squarely into one another or into solid objects, but where the contact was at an angle or only over part of the car's front.

A car developed to crash into a wall at right angles with maximum absorption of the deceleration forces, and minimum injury to occupants, might well not perform nearly so safely when hitting the same wall at 30 degrees off the right angle.

Worldwide, national safety thankers were coults widely

d steady

me month

standards vary quite widely, with the US still generally the most demanding (though when it comes to seathelt wearing, the US is still behind Europe). Impact absorption by the front of the car, together with the surviving, non-deforming

passenger cell, is now well enough understood for comput-er-eided design and the results of impact simulation on a computer screen to make a lot of testing unnecessary.

The first new engine whose design – and unusual cylinder arrangement - were partly influenced by crash absorption

Side collision is far harder to deal with

considerations was launched last November.

The Volkswagen-Audi group's 2.8-litre vee-six-cylinder is conventionally arranged with two banks of three cylinders set at 90 degrees, for the longways engined new Audi 100. Vee-six engines are wide, but short lengthwise, leaving plenty of nose structure for impact absorption when they are installed lengthwise.

Three months later, VW revealed the long-rumoured

similar capacity vee-six engine for the Passat, and later, for a top-end version of the new Golf due this autumn. A major reason for the 15-degree vee dispo-sition of its cylinders is that overall engine width is much less than on a 90-degree vee, allowing a maximum of crash-absorption length in the nose out used in all Volkswagens

In spite of mistrust by the public, the air bag inflates from a pocket adays out of the fascia in front of the front passenger on sens-ing the start of collision deceleration - is becoming more widely accepted as well as

legally required.

There are now calls for similar impact absorption to cater for side impact, a frequent form of collision. Side-swipe protection has previously been confined to reducing intrusion into the passenger box with reinforcements in doors, Side collision is far harder to

など かきょ

deal with, because in contrast to front collision, there is in an average family car only onesixth as much length between the outside and the nearest occupant and a far smaller thickness of structure in which to absorb impact. For this reason, some researchers are working on applying the air bag to the side of the cabin as well as the front.

Besides improving car occu-pant protection, a lot could be done to reduce the chances of collisions by better manage-ment of traffic – which becomes daily more important as its volume increases. Some 14 European motor manufac-turers and related companies – including Britain's Jaguar, Lucas and Pilkington – have collaborated since 1987 on a remarkable if under-publicis research programme to establish safer traffic systems.

All of which will help in the future - but sadly not nearly as much as higher standards of driving.

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FINANCIAL TIMES COMPANIES & MARKETS

O THE FINANCIAL TIMES LIMITED 1991

Tuesday May 21 1991

INSIDE Sedgwick steady in

first three months

Sedgwick, the International insurance group which last year carried out a major cost-cutting programme, vesterday announced static pretax profits for the first quarter. Pre-tax profits in the three months to end-March came out at £42.8m (\$72.8m) against £42.5m last time. Sedgwick had reported sharply reduced full year profits of £69.3m that included £21m of exceptional charges for redundancies and clo-sures, especially in the US. Page 26

Chilean gold mine leaves them all breathless



ett on accident

ads in

safety

Side collision st

Torder to deal e

A prospective visitor to the Choquelimpie gold mine in the Chilean Andes will first have to undergo a strict medical esting blood pressure and pulse rates. Cho-quelimple is the world's highest commercial mine, at 4,825 meters, gold-bearing rock a year. But one in every three visitors suffers altitude sickness which causes headaches, nausea and, sometimes vomiting. Kenneth Good-

ing reports on how the operators cope with working at these difficult altitudes. Page 30

Polly Peck's silver lining

Vestel has risen above the dark cloud hanging over Polly Peck International. PPI's Turkish consumer electronics subsidiary boosted profits by almost four times in 1990. Vestel's success provides an object lesson for its rivals. how a foreign investor new to the field can shake up a well-established industry. John Murray Brown reports on one of PPI's more

First fall for JVC in four years JVC, the Japanese con-

pany, yesterday reported its first pre-tax profit fall in four years with a 27 per cent drop in consolidated pre-tax profits for the year to March 1991 to Y26.3bn (\$190m). It attributed the fall to increased price ition, and higher spending in research and development and advertising. Page 20

Bond swap moves a step nearer



Alan Bond, former chair-man of the Bond Corpocent less of the company's shares if a proposed debt-for-equity swap approved yester-day by shareholders in Perth is carried out. Peter Lucas (left), who replaced Mr Bond as chairman last year, said Mr Bond voted in favour

of the reconstruction.
The vote follows approval from Swiss franc clears the way for a vote by other European bond holders within the next fortnight. Kevin Brown reports, Page 20

Barlow Rand falls 14%

Barlow Rand, South Africa's largest industrial group, yesterday announced a 14 per cent profits decline in the six months to March as Middelburg Steel, a big subsidiary, suffered a loss. Turnover rose 12 per cent to R16.5bn (\$5.5bn), but pressure on margins saw operating profit 1 per cent lower at R1.2bn. Page 22

Market Statistics

FT-A indices FT int bond svce

London tradit options
London tradit options
Menaged fund service
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New let bond lesues
World commodity prices
World stock micl indices

Companies in this lesue

Barlow Rand Bond Corp Brent Walker Central & Sh Cook (Then Dai Nippon Printing

Interspiro JYC K-Mart Mitaubiahi Estate Polly Peck Inti Prowting Bankt Anni Bank Samu Sedgwick Sedgwick Sumitomo Realty 27 Toys "R" Us 22 Youghat

Chief price changes yesterday

Montedison rises 13% in first quarter

By Haig Simonian in Milan

MONTEDISON, the Italian chemicals, energy and agroindustrial concern controlled by the Ferruzzi group, said yester-day that it had recorded a 13 per cent rise in operating profits for the first quarter of 1991. The group also revealed consol-

idated after-tax profits, net of minority interests, of L556bn (\$437m) for 1990. Sales were little changed at L14,739bn against L14,738bn in 1988.

Comparison with 1989 earnings is virtually impossible, due to the merger announced last July between Montedison and Ferruzzi Agricola Finanziaria, Ferruzzi's agro-industrial subsidiary Mat. ters are further complicated by

ENICHEM, the Italian chemicals group previously known as Enimont, plunged into the red last year with a loss of LSSbn (\$68.45m), after a profit of L716bn in 1989, writes Haig Simonian in Milan.
Before minority interests, the loss amounted to L68bn, against net earnings of L740bn in 1989.

The group, controlled since last November by Italy's state-owned Eni chemicals and energy concern, blamed its loss on the

the sale last November of Montedison's 40 per cent stake in the Enimont chemicals joint venture to Eni, the state-owned group. However, the sale brought Montedison a welcome liquidity, reducing group debt from

L6,755bn at end-December 1989 to L5,815bm at the end of last year. The disinvestment has also rid the group of a troublesome bulk chemicals business just as it was slipping into loss, and more than compensated for the expense Although group net earnings amounted to L1,156bn, if extraor-

The company is restructuring involving Net group operating profits fell to L743bn from L1,665bn in 1989, while net job losses, disposals and joint ventures.

EniChem said earnings had been hit partly by lower demand and decreased bt rose to L8,341bn against L6,186bn in

margins for many of its products.
Exchange rates and a sharp rise in costs in the second half also affected earnings.
Group sales fell by 1.9 per cent from L15,347bm in 1989 to L15,060bm, with the

depression in the world chemicals indus-

However, EniChem managed a small profit of L800m at the parent company level. As a result, the company will be able to pay a dividend of L15 a share against L85.20 in 1989. dinary gains stemming from Eniincurred in buying out the minority interests in Montedison's Himont subsidiary in the US. In 1989, Montedison's group net profits were already confusing.

mont-related revaluations were deleted, then profits actually fell by 26 per cent on the 1988 figure to L362bn.

sharpest falls being in agro-industrial products and elastomers.

Gross operating profits dropped from L1,820bn in 1989 to

L1,631bn last year. The figures include L618bn in net operating profits and L1,013bn in deprecia-

tion, against L930bn and L830bn respectively in 1939.
The company, which is maintaining its dividend at L50 for each ordinary share and L70 for each ordinary share and L70 for savings shares, attributed the sharp earnings fall to the downturn in the chemicals industry.

The polymers business was particularly difficult. Lower raw material costs did not compensate for the fall in finished and

sate for the fall in finished product prices. Earnings were also affected by exchange rate factors and dry weather in Europe, which boosted raw material prices on the agro-industrial side.

Tottenham shares Gascoigne's pain

The injury to Britain's best-known footballer has jeopardised his club's financial hopes. Jane Fuller reports

hen Paul "Gazza" Gascoigne crumpled to the ground during Saturday's FA Cup Final, his right knee visibly swelling, Tottenham Hotspur's financial hopes crumpled with him.

The London football club, one of the UK's big five, had counted on selling Gascoigne to the Italian club Lazio for £7m-plus, to halve its debts of £13m-£14m. Now that torn ligaments have

Now that torn ligaments have side-lined him for several months, the deal is in jeopardy and the club must think again.

For its part, Midland Bank, owed £10m-£11m, must decide how much longer to be patient. Since last year, the club has been in breach of its loan agreement and Midland can call the debt in

at any time.

Tottenham's predicament is a lesson to the other big UK clubs in how mis-managed diversification and lex control of stadium development can bring even a cup-winning club to the brink of

cup-winning club to the brink of bankruptcy.

The lesson is particularly relevant as UK soccer is faced with spending hundreds of millions of pounds to create all-seater stadia as a result of the Taylor report into the Hillsborough disaster.

Midland Benk's decision is not an easy one. Tottenham is paying its total interest bill of £35,000-aweek and has reduced bank debt from £12.3m last May. After clos-ing loss-making clothing subsid-iaries and cutting costs, the club's 1990-91 operating profit should be better than the £2m earnt last year. The victorious FA Cup campaign will have con-tributed about £500,000.

Tottenham is alone among the big five in having much in the way of boarowings. Arsenal and Manchester United are both launching big fund-raising issues
- bonds to secure seats and a stock market flotation respec-



tively – from a debt-free base. Neither Liverpool nor Everton paid any interest in 1989-90. But while its rivals are raising money for future development of their stadia, Tottenham needs the cash to remedy past mistakes. These include cost over-runs on the East Stand at White Hart Lane, which eventually absorbed £8.7m, and unsuccessful forays into fashion and sportswear, which lost several hundred thou-

sand pounds last year.
Selling Gascoigns had become
more urgent as hopes faded for
alternative sources of capital either a substantial rights issue or the takeover of the club by a consortium backing Mr Terry Venables, the team manager. Mr Venables' future with the club is now in doubt because of his chal-lenge to the board and the expiry



of his contract this summer Without a fresh capital injec-tion, Tottenham cannot hope to regain its stock market listing, suspended in October with the shares at 91p.
Tottenham can, of course, sell

players other than Gascoigne. England striker, might fetch the best part of £2m. Paul Stewart, scorer of a crucial goal on Saturday, might be worth more than the £1.5m Tottenham paid for him in 1988. In all, a dozen of the cinb's 34 professionals have been assigned a book value of £9m including £2m for Gascoigne.
But the sums are small com-

pared with the amount Gascoigne would have raised. Similarly, any rights issue or other capital-rais-ing exercise that Tottenham might conduct now looks smaller



solved amid stock exchange disapproval and boardroom acriand Mr Paul Bobroff, who came in with him in 1982, resigned from the chairmanship.

The new chairman is Mr Nat Solomon, former head of Pleasurama. Since his arrival, the finance company Baltic is under-stood to have offered to arrange a one-for-one issue at 40p-a-share – but that would have raised less than £4m after expenses.

Mr Venables's efforts to buy

into the club have also proved unacceptable. His first tilt, said to be worth £20m-plus, was via a



1991 : £7m+ SALE OF GASCOIGNE TO

consortium including the shadowy property dealer Mr Larry Gillick and advised by the struggling finance house Tranwood Earl. It did not convince the

His second effort was far more modest: to spend at most £3.25m each to gain a maximum stake of 35 per cent. Although this went down well with the shareholderfans, who have lost patience with Messrs Scholar and Robroff, it failed to win enough support among directors and major share-holders, some of whom Mr Vena-

bles wanted to force out.

Mr Tony Berry, who joined the board before his Blue Arrow group ran into trouble, is a Vena-bles supporter. But another director says the move is an attempt to control the club on the cheap.

that Mr Solomon, brought out of retirement for the job, is not a

long-term chairman, have made the task of attracting new investors all the more difficult. Other top football clubs hope to avoid similar problems. Manchester United has stressed that it will not diversify away from football. It expects to make a pre-tax profit of about £5m this year on a turnover of about £15m,

thanks to success in the Euro-pean Cup Winners' Cup.

Arsenal has chosen to cash in on its fans' emotional ties, rather than on an appeal to harderheaded investors who would want interest or dividend payments. It is offering seats, reasonable season ticket prices and better facilities to raise £16.5m from 12,120 supporters.

Tottenham says it needs to

spend less than its rivals to com-ply with the Taylor report because of previous investment in new stands. It estimates that £2.5m of new investment plus a £2m grant from the Football Trust will make White Hart Lane all-seater by the deadline of August 1994.

On the revenue side it can look forward to about £2m from European football next season, plus price rises of more than 20 per cent. Attendances might fall,

Tottenham's problems illus-trate how British football must ment: in new stadia, and in players. The risks and rewards are great. Without new stadia, the clubs cannot meet government requirements. Without strong teams, the clubs cannot take proper advantage of their return to European competition, and of the possible emergence of superleagues at home and in Europe. See Lex Page 18

LTV plan to sell defence unit criticised by creditors

By Martin Dickson in New York

LTV, the US steel company. LTV, the US steel company, yesterday announced plans to sell its large defence and aerospace business to help it out of bankruptcy proceedings – but it ran into immediate opposition from creditors of the division.

LTV's defence and aerospace

company makes missiles, rockets, space systems, military vehicles and sub-assemblies for military and commercial aircraft. It is the 20th largest defence contractor in

The division employs 16,100 people, had sales in 1990 of about \$2bn and its current order backlog is more than \$5bn. However, the business has been barely profitable in recent years, with the aircraft products side making a \$19.3m operating loss last year and missiles and electronics a

LTV has been in Chapter 11 the sale of the defence division. bankruptcy proceedings since 1986 but earlier this month 1986 but earlier this month announced a plan to emerge from the protection of the courts, involving payment of large amounts of available money to settle a long-running dispute over the funding of its three pension plans. That package was immediately attacked by the group's unsecured creditors, who would be paid a maximum of only 25 per cent of their claims. per cent of their claims.

It is selling the defence division to meet a requirement that it pay about \$450m in cash immediately into the pension plans.

LTV said when it unveiled the metastration plan that this com-

However, the disposal plan stirred up opposition among creditors holding about \$170m of the aerospace unit's \$300m debt. This group is concerned that the restructuring plan has made lit-tle distinction between creditors of the steel side, where most of the pension obligations lie, and its healthier aerospace side. The creditors said the LTV plan was a "cynical and ill-conceived attempt to confiscate value which rightly belonged to them," and there was no business justification for selling the

operations now.

Analysts said the company could have difficulty selling the division at a good price: although US commercial aircraft sales are

Brent Walker to unveil bank plan

restructuring plan that this commitment would require it to raise \$300m through asset sales -

although it expects to realise sub-stantially more than that from

By Maggie Urry

MR GEORGE Walker, chief executive of Brent Walker, was confident yesterday that the heavily indebted leisure group's bankers would accept a business plan to ensure its survival. The shares rose 3p to 32p.

The former boxer said his confidence was based on relatively good trading and the fact that it was "in no one's interests" to put the group into administration. Banks, which have lent over £1.2hn (\$2.4hn) to Brent Walker, would suffer large losses if the company went bankrupt.

Since last November, when an emergency refinancing was agreed with its banks, Brent Walker has only been able to con-tinue trading with their support. Now its creditors have to decide whether to put the group's finances on a firmer footing for the longer term, and how to accomplish that

Looking cheerful and flanked by the senior directors appointed since the group's refinancing, Mr Walker said he could not reveal any details of the plan ahead of presenting it to the banks this afternoon. All he would disclose was that the plan envisaged no reduction in his role at the company. He, with his family, is the

company's largest shareholder. The plam is thought to include proposals to sell assets such as the group's casinos and some of its sports and leisure complexes. Brent Walker wants to keep the William Hill betting shop chain; its brewing and pub business Puerto Sherry in Spain and Brighton Marina on the south coast of England. A proposal to convert some of the group's bank debt into shares is unlikely. Mr Walker was supported in

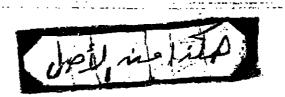
chairman, and Mr Nicholas Ward, group managing director. Mr Ward said that the plan being put to the banks was "realistic, achieveable and a sensible way forward for this group".

Their bullishness was despite the announcement of a retained

1990 loss of £255.9m (against a profit of £104.7m), a £499.2m write-down of property values and a £690m fall in shareholders' funds to £139m. Brent Walker did not pay a final dividend for 1990. It warned it would make an overall loss this year and would pass the dividend on its preference

Operating profits rose by 8.2 per cent to £122.2m. Net interest charges of £116.2m (£44.1m), exceptional debits of £38.1m and extraordinary debits of £301.8m did most of the damage to the profit and loss account. Lex, Page 18

May 1991 IYRICHOTELS LTD. £25,700,000 Management Buy-In £11,100,000 **Equity** Arranged by ENTURES Underwritten by funds advised by County NatWest Ventures Limited Causeway Capital Limited Murray Johnstone Limited Hambro European Ventures Limited £14,600,000 Senior Debt Facilities Arranged by **COUNTY NATWEST** Underwritten by Bank of Scotland County NatWest Limited Provided by Bank of Scotland County NatWest Limited The Hongkong and Shanghai Banking Corporation Limited County NatWest Limited is a Member of The Securities and Futures Authority



How to Make Inroads into the Japanese Market

On February 28, 1991, a European company announced a takeover bid for a Japanese company. Yamaichi Securities Co., Ltd. acting as dealer-manager assisted the European company, in just over three weeks, to successfully acquire a 99% interest in the Japanese target. This was the first TOB launched in Japan under the revised Securities and Exchange Law, which was amended recently along the lines of American and UK statutes. What are the requisite strategies for making a successful acquisition in the Japanese market—despite its reputation for being closed to foreign takeovers?

The dawning of a TOB era in Japan

On February 28, 1991, a full page announcement in Japan's leading newspapers heralded the coming of a new era:

Asea Brown Boveri (ABB) of Switzerland, the world's largest manufacturer of heavy electrical machinery, made a takeover bid through its affiliate Gadelius (Japan) K.K. for Fuso Power & Heat Industrial Co., Ltd., a leading maker of automotive painting equipment. In this acquisition, Yamaichi Securities Co., Ltd. acted as financial advisor to Gadelius and took part in the purchase as dealer-manager of the TOB. It was the first full-fledged TOB in Japan by a foreign-affiliated company made with the object of obtaining control of a Japanese business. Through this buy-out, Gadelius was able to expand into the Far East by establishing a strong foothold in the Japanese market and gain access to the heart of the Japanese automotive industry, represented by such makers as Toyota and Nissan.

On March 15, 1990, in an interview with the Nikkei Sangyo Shimbun, Isamu Suzuki, executive vice president of Gadelius and project leader in the recent TOB, had the following comments to make regarding business takeovers. "While we resorted to a buy-out because an in-house effort would have been too time consuming, purchase of a Japanese company requires the assistance of an intermediary to act as a matchmaker between the two parties. The process is slower when you have to negotiate through an intermediary rather than face to-face with the counterparty's management, but in a corporate culture where face is highly valued, use of an intermediary is the key to a successful corporate acquisition."

And not just any intermediary—Gadelius was not alone in turning first to Yamaichi. In the first six successful takeover bids mounted in Japan by foreign companies, Yamaichi has mediated in four of them. The company's disproportional representation in the M&A league tables stems from its premier standing among the M&A houses in Japan. Since 1973, when Yamaichi established the first wholly separate M&A department in Japan, the company has recorded a long string of pioneering accomplishments: They handled the first tender offer by a foreign company of a Japanese company, the first acquisition by a foreign company of a quoted Japanese company, and the first successful tender by a Japanese company of a company from a rival keiretsu, or affiliated business group. Since then, Yamaichi has amassed a wide range of M&A experience, from TOBs, to asset transfers, including divestitures, equity participation and straightforward mergers.

Composition of M&A Announcements (involving Japanese Cos. only; Domestic/Foreign)

	In-In	219	46.7	223 40.2	240	% 36.4 29	% 3 39.0	83	%	problems and bringing the talks	Masaru Matsui	accommodates them best, through 28 overseas bases and
	In-Out		48.6	315 56.8		61.4 44			40.1	to a successful conclusion."	Attorney-at-law and	127 domestic branches as well as 10 affiliated companies.
. %	Out-In Total	22	4.7	17 3.1 555		2.3 l	751		3.4		legal advisor with Yamaichi's M&A dept.	For more information please contact:
1.	in-in = Jap in-Out = Ja Out-in = F	anese bu	er and s uyer, for	eller eign seller		<u> </u>		·	<u>'</u>	GUINNESS PEAT AVIATION GADELRIS E.K. SERVICIONAL SERVI	1/.	London: J. Kyle 071-374-8622 Tokyo: Y. Aono 03-3276-3728
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Yamsichi International (Europe) Limited: Firsbury Court, 111-117 Finsbury Pavement, London EC2A IEO, U.K. Tel: 07-638-5599 Teles: 887414 YSCLON G
Yamsichi International (Europe) Limited: Firsbury Court, 111-117 Finsbury Pavement, London EC2A IEO, U.K. Tel: 07-638-5599 Teles: 887414 YSCLON G
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Migdrid Office: Tel: 91-563-0653 Teles: 27182 YAMAD-E Bartin Office: Tel: 030-261-9050 Teles: 303980 yern d

YAMAICHI SECURITIES

The attached table illustrates the trend in mergers and acquisitions involving Japanese companies. It can be seen that, while the number of cross-border takeovers has remained more or less unchanged, domestic deals have surged

"The Gadelius-Puso deal is with a clearly conceived bus experienced Japanese advisor in any bid for a Japanese but Aside from the sweeping of the conceived bus experienced Japanese advisor in any bid for a Japanese but acquisitions involving Japanese companies. It can be seen that, while the number of cross-border takeovers has remained more or less unchanged, domestic deals have surged.

The latest trend contradicts common opinion which holds that M&A deals targeting Japanese companies are met with strong resistance. The reasoning has been that managements feel paternalistic towards their companies, and so, relinquishing control to an outsider, regardless of nationality, amounts to failure and betrayal. Although there is more than a little truth in this, the statistics clearly show that even in Japan, M&A has taken firm root.

recently, to become the most active sector in Japanese M&A.

Expansion of the M&A market

If a Japanese company now can purchase another Japanese company, what are the prospects, then, of a foreign company to do the same?

M&A as practised in Japan

"With the proper advice and guidance, a foreign firm should have no more difficulty than a Japanese company in striking a successful M&A deal," says Masaru Matsui, attorney-at-law and a legal advisor with Yamaichi's M&A department, who helped mediate between Gadelius and Fuso.

"For Japanese companies, internationalisation is a big issue and, in many cases, from the point of view of global business strategy, the potentially complementary relationship established by a foreign buyer would be a more desirable option." he adds.

It has taken a long time for TOBs to become accepted in Japan. In 1973, when Yamaichi's M&A department first opened its doors, the buying or selling of a Japanese company for any reason raised eyebrows. For Yamaichi, it has been a continuing search for ideas and techniques that can translate the practical benefits of healthy M&A into the idiom of Japanese business mores.

In the opinion of Genji Sugiyama, president of Yamaichi International (America) in New York, the base for Yamaichi's US M&A team, a TOB is still not without

its pitfalls. "It is true, however, that any number of difficulties may arise from the clash of cultures as the two parties pursue their negotiations. The presence of a Japanese advisor who is comfortable in both cultures is indispensable for ironing out these problems and bringing the talks to a successful conclusion."

1991 (~3.31)

Mesery Motori

Tokuo Ukon, Managing Director and Chief Executive of Yamaichi International (Europe) in London, concurs, "The Gadelius-Fuso deal is proof that a foreign company with a clearly conceived business strategy, together with an experienced Japanese advisor, has a good chance of success in any bid for a Japanese business company."

Aside from the sweeping changes in Japanese perceptions of M&A as a viable business option, measures are also afoot to improve the infrastructure for corporate acquisitions, such as further revision of the TOB regulations.

According to Masaru Matsui, "Control over corporate acquisitions by foreign-owned businesses is now greatly relaxed, thanks to a revision of the TOB regulations in December 1990. The revision included, among other things, abolition of the requirement for advance notice to be made to the authorities, extension of the period for a TOB offer, and decontrol of the delegation of a proxy by a foreign company in filing a TOB notification.

"Additionally, regulations were eased in other related areas, such as the Large-Scale Retail Store Law, helping for instance, Toys "R" Us, Inc. to advance into the Japanese market," he adds.

With a GNP of ¥389 trillion (fiscal 1989), the Japanese market is certain to become more open and attractive to foreign buyers.



Tokno Ukor Managing Directo & Chief Executive Amaichi Internationa (Europe) Limited

The strength of Yamaichi's traditional ties with the corporate sector is one element that has made the Group a leader in domestic and cross-border M&A. Yamaichi's full operational and managerial independence from any of Japan's large business and financial conglomerates allows its M&A team to move freely in contacting any company.

Yamaichi's M&A department maintains full-time staffs in New York, Los Angeles, Toronto, Montreal, and in London, which serves as the base for European coverage. These M&A teams are composed of legal, accounting and coverage specialists who work closely with Tokyo's M&A staff in providing coordinated global coverage. As for other markets, such as Asia and Australia, Yamaichi's local offices work jointly with the Tokyo M&A team.

To further strengthen its international presence, Yamaichi established a strategic alliance in October 1988, with Lodestar Partners, a US investment bank specialising in M&A.

Yamaichi Group's comprehensive business lines range from brokerage, portfolio advice and fund management to innovative corporate finance and M&A assistance. The central goal at Yamaichi is to serve clients in whichever market accommodates them best, through 28 overseas bases and 127 domestic branches as well as 10 affiliated companies.

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NOTICE TO THE NOTEHOLDERS

STATE BANK OF SOUTH AUSTRALIA A\$ 50'000'000

Puttable Adjustable Rate Notes due June 11, 1992 (redeemable at the Noteholders option) Unconditionally and irrevocably guaranteed by The Treasurer of the State of South Australia (EC No. 52875)

According to Article 3(c) of the Terms and Conditions of the Notes the interest rate for the period June 11, 1991 to June 11, 1992 has been fixed at 10 1/4%.

The interest amount on A\$ 1000 comes to A\$ 105.625

in accordance with Article 5(b) of the Terms and Conditions of the Notes State Bank of South Australia will, at the option of the holder of any Note, redeem on any Interest Payment Date (June 11), such Note at its principal amount provided that all unmatured Coupons relating thereto are attached thereto or surrendered therewith. To exercise such option the holder must deposit such Note together with all unstatured Coupons relating thereto (other than theCoupon maturing on the Interest Payment Date on which such Note is to be redeemed) with any Paying Agent mentioned below not earlier than the date of publication of the Flate of Interest Amounts applicable to the Interest Period next following such Interest Payment Date nor leter than the sixth Business Day prior to the Interest Payment Date. No Note, if so deposited, may be withdrawn without the prior consent of the State Bank of South Australia. This year the Put period will run from May 21, 1991 to May 31, 1991.

May 21, 1991. By: Swiss Bank Corporation, Agent Benk For and on behalf of State Bank of South Australia

> Fiscal and Principal Paying Agent: Swiss Bank Corporation, Basel

Paying Agents: Banque Générale du Luxembourg S.A., Luxembourg Swiss Bank Corporation, London Swiss Bank Corporation (Canada), Toronto

Operating Profit before Tax and Abnormal Item

Interim Dividend per Ordinary Share (fully franked)

services to over four million customers world-wide.

The figures above have been converted into GBP at the rate of AUD1 = GBP 0.44500.

(excluding abnormal item of -A\$22 million [-£10 million])

Operating Profit after Tax and Minorities

(Reserve Bank of Australia guideline of 8%)

Net Tangible Assets per Ordinary Share

Proprietors' (shareholders') Equity

Total Capital Resources

Risk Asset Capital Ratio

Earnings per Ordinary Share (excluding abnormal item)

NET PROFIT (A\$ MILLION)

after tax and minorities but excluding extraordinary and abnormal items

1989

2nd half 🚟

1998

1991

Total Assets

500

INTERNATIONAL COMPANIES AND FINANCE

K-Mart unveils 7% rise in income

By Karen Zagor in New York

K-MART, the world's second biggest retailer, yesterday unveiled a 7 per cent improvement in first-quarter net income on sales which advanced 9 per cent. For the three months ended

May 1, K-Mart raised net income to \$107.5m, or 53 cents a share, against \$100.1m, or 50 cents, a year ago. Sales advanced to \$7.64bn from

The results were at the high end of expectations, and shares

trative expenses rose 4 per cent in the quarter to \$1.7bn from in K-Mart gained \$1½ to \$41½ at midday yesterday. Mr Joseph Antonini, chair-

K-Mart's gross margin in the quarter decreased to 24.8 per cent of sales from 26 per cent a man and chief executive, said the company was encouraged by the results "as favourable year ago, reflecting a greater sales contribution from the comparisons were achieved despite the difficult economic environment throughout the company's lower-margined PACE Membership Warehouse business, and increased clear-He added that customers had reacted favourably to the com-pany's merchandising proance mark-downs of winter apparel at the beginning of the

quarter.
The pre-tax last-in first-out

charge was \$30m in 1991 com-pared with \$32.5m a year earl-

K-Mart, which enlarged, refurbished or relocated 87 stores in the first quarter, said it planned to complete its programme for 450 to 500 projects by the end of the year.

K-Mart operates 2.37 K-Mart stores and is the parent company for Pay Less Drug Stores, Builders Square, Waldanbooks, PACE Membership Warehouse and The Sports Authority.

Toys 'R' Us falls to \$22.4m

control of the skyscraper until the year 2076. Without that master lease, real estate experts say the price of the building would be over \$600m. Prudential owns the building and the land it sits on at 34th THE MOST famous skyscraper in America – the Empire State Building – has been put up for sale by its owner, Prudential Life Insurance Company of America, for about \$50m, Reu-

NY landmark up for sale

Westpac Banking Corporation

GROUP PERFORMANCE

(Half year ended 31 March 1991)

GROUP ASSETS

(A\$ BILLION)

107.0 108.3

67.2 68.5 68.9

1989

Overseas ===

(1986-90 Group Assets are as at 30 September)

OPERATING HIGHLIGHTS

(compared with half year ended 31 March 1990)

Operating profit before income tax and abnormal items increased 26% to A\$313 million (£139 million).

• Profit on operations after tax and before abnormal items increased 55% to A\$241 million (£107 million).

Charge against profits for bad debts and provisions for doubtful debts decreased by 6%.

• Growth in non interest expenses* at 1.7% was the lowest since 1982.

1996

period'

ter reports.
Prudential was not available for comment on why it was up for sale, but there is specula-tion that the company might be under pressure to raise capi-tal to offset bad real estate

It is considered a bargain at today's real estate prices because a master lease, in effect since 1961, ties up actual

Westpac is owned by over 131 500 Proprietors (shareholders) and provides financial

25

Australia 🚾

Street and Fifth Avenue. It

receives \$3.4m a year for the building, but this will be cut to

Selling, general and adminis-

\$2m next year.

The two real estate partnerships that manage the building keep all the profits from renting it above the fee paid to Prudential until their lease runs out in 2076, when the building will be 145 years old.

By Karen Zagor

(£139 million)

(£ 107 million)

(7 pence)

(£3.2 billion)

(£4.3 billion)

(£48.2 billion)

(9.1 pence)

25.0 25.0

2nd half 🚟

DIVIDEND PER

ORDINARY SHARE (AUST. CENTS)

TOYS "R" Us, the US chain of toy stores, yesterday turned in first-quarter net earnings of \$22.4m, or 8 cents a share, compared with \$33.2m, or 11 cents, a year earlier, although sales rose 9 per cent to \$1.93bm from \$944.8m.

Mr Charles Lazares, chairman and chief executive, said sales had increased in all three of the company's segments. The results were in line with expectations and, at mid-session, shares in Toys "R" Us

sion, shares in Toys '8" Us were unchanged at \$27% on the New York Stock Exchange.

A\$313 million

A\$241 million

A\$0.15 cents

A\$7.1 billion

A\$9.7 billion

A\$108.3 billion

28.0

1st half

14.0

1987

10.1%

A\$0.204

The company was one of the last US retailers to feel the bite of the recession, but quarterly earnings started to slide in the Christmas quarter, levely the teachers the company of the c largely due to aggressive dis-counting and promotions by

other toy sellers. Mr Lezarus said the store expansion programme was on schedule. The company oper-ates 451 tay stores in the US, 97 toy stores oversess and 180 Kids "R" Us children's clothing stores. It plans to open about 80 toy stores, including its first in Japan and Spain.

CRA extends **CAIL** bid as acceptances fall short of target

By Kevin Brown in Sydney

CRA, the Australian mining group, yesterday extended its takeover offer for Coal and Allied Industries (CAIL) for the second time after its bld of A\$5.50 a share failed to attract sufficient support for control.

CRA, 49 per cent owned by RTZ of the UK, said it had received acceptances for 33 per cent of CAIL's voting absres well short of its target of 50:1

per cent.
The group said it had extended the offer until Friday to allow time for further accep-tances to arrive from individ-ual shareholders and institutions who have had practical difficulties in accepting the

offer.

Mr Duncan Sutherland,
CRA's vice-president for strategy and acquisitions, said the
group was hopeful that a "not
insignificant number" of further shareholders would accept the hid, which values CAIL at A\$472m (about US\$370). Mr Sutherland said CRA believed several larger shareholders would accept the offer because would accept the offer because of concerns about the reduced liquidity of the shares and the likelihood of a fell in the market price, which has been buoyed by the bid.

The offer was increased from A\$7.85 a share and declared unconditional last week after CDA meeting laying harville of

CRA received only a handful of acceptances for its original bid, which valued the company at

A\$435. The shares closed 4 cents The shares closed 4 cents lower last night at A\$8.54, 4 cents above the offer price.

The acquisition of CAIL would probably allow CRA to overtake the Broken Hill Proprietary Company as Australia's biggest coal exporter by the middle of the decade.

CAIL directors have argued that the bid does not ade-

that the bid does not adequately reflect the strategic value to CRA of its low-cost

Barlow Rand falls by 14% on steel unit loss

By Philip Gawith

BARLOW RAND, South Africa's largest industrial group, yesterday announced a 14 per cent profits decline in the six months to March as Middelburg Steel, a big subsidiary, suffered a loss.

Turnover rose 12 per cent to R15.5bn (\$5.55bn), but pressure

on margins saw operating profit 1 per cent lower at R1.2bn.
Attributable profit was down to R348m from R463m. The dividend was maintained at 51

idend was maintained at 51 cents per share.

The lower profits reflect the R17m loss at Middelburg Steel which is suffering from oversupply in the world ferrochrome market and a strong rand. Barlows has announced it will be reducing its stake in wholly-owned Middelburg Steel later this year by a free distri-bution of shares to Barlow shareholders. This will make the group less susceptible to Middelburg Steel's cyclical

earnings.
On the industrial side, good performances by sugar, Tiger Foods and pharmaceutical companies in particular saw contributions from food and pharmaceuticals rise 16 per cent to contribute 34 per cent of group profits. This was off-

set by a 27 per cent decline in the contribution from mining and processed minerals to only and processed minerals to only
22 per cent of the group total.

• RAND MINES, the mining
house controlled by Barlow
Rand, said it might cut its
annual dividend by up to 50
per cent because of restructuring costs.

The costs relate to the imminent disposal of its troubled
Rarnlats/Barmines platinum

Barplats/Barmines platinum interests. Negotiations with Impaia Platinum on the dis-posal of the platinum interests have reached an "advanced

stage".
Mr Dammy Watt, chairman, said an agreement with Impala would involve Rand Mines assuming about R200m of Bar-mines debt. It would also be followed by a Rand Mines write-down of its platinum investments. At current share price levels this would total about

Attributable profit rose 8 per cent to R104.3m from R96.6m in the six months to the end of March on a 13 per cent increase in turnover to R856.6m.

The interim dividend was reduced to 100 cents per share

Interpublic takes control of TV game show group

By Alice Rawsthorn

INTERPUBLIC, one of the largest US marketing groups, has become the biggest player in television games shows by taking control of Fremantle International, which owns the rights to The Price is Right, Family Feud and The Dating Game.

The company has increased

The company has increased its holding in Fremantle to 80 per cent for an undisclosed

The remaining shares are owned by Mr Paul Talbot, who will continue as president.

Fremantle specialises in buying the rights to US games shows and "repackaging" them for sale to television companies in other countries. The Dating Game, for instance, has been repackaged as Blind Date for the UK.

The Price is Right, its most

successful show, is now sold all over western Europe and is shown seven days a week on shown seven days a week on the TF1 channel in France. Fremantle has six shows a day on TF1 and seven a day on Channel 5 in Italy. Interpublic, which owns the McCann-Rrickson and Lintas interpublic adventions.

international advertising agen-cies, first became involved with Fremantle two years ago when it bought 49 per cent of

when it bought 49 per cent of the equity.

The Interpublic agencies have led the trend for large advertising groups to become more involved with programme production. Lintas has a production subsidiary, EC Television, which distributes Wheel of Fortune, the games show, and recently produced Riviera, the first pan-European soap opera. soap opera.



Kingdom of Denmark

US\$ 250,000,000 Floating Rate Notes due May 1995

In accordance with the description of the Notes, notice is hereby given that for the interest period May 21,1991 to November 21,1991, the Notes will carry an interest rate of 10 % per annum.

The interest payable on the relevant interest payment date, November 21,1991 against coupon no 13 will be US \$511.11 for each US \$ 10,000 Note, The Agent Bank



KREDIETBANK S.A. LUXEMBOURGEOISE



REPUBLIC OF ICELAND U.S.\$100,000,000 Floating Rate Notes Due 1994

Nation is hereby given that the rate of interest has been fixed at 6.4% and that the interest payable on the relevant interest payment date. November 21, 1991 against Coupon No. 5 in respect of US\$10,000 nominal of the notes will be US\$327.11.

May 21, 1991, Landon By: Cilbank, N.A. (CSSI Dept.), Agent Bank

*Excluding depreciation and amortisation



Westpac Banking Corporation

ends CAN

MES TUESDAY MAYAG

Hanwa falls
by 1.8% to
Y37.6bn

By Emiko Terazono
in Tokyo

HANWA, the Japanese traled by Mr Shi HANWA, the Japanese trading company led by Mr Shigeru Kita, reported a 1.8 per cent drop in its unconsolidated pretax profits to Y37.6bn (\$270.50m) for the year to

(\$270.50m) for the year to March 1991.

The company, known within the Japanese financial community for its aggressive speculation in the currency markets, said that despite the strong performances in its steel-related operations, appraisal losses on its cross-shareholdings and securities investment had hart profits. Overall sales increased 0.2 per cent to

increased 0.2 per cent to Y773bn.
Operating profit rose 46.2 per cent due to lower fixed costs and selective orders. After-tax profit fell 7 per cent to Y20.4bn. Hanwa said it will reduce its annual dividend to reduce its annual divinena we Y18 per share from the previous year's Y15.25.

For the current year, Hanwa For the current year, expects pre-tex profits to rise 6.2 per cent to Y40bn.

and an agreement the second se Printer's sales pass Y1,000bn र १५०० व्यवस्था सम्बद्धाः वर्षात्रे १५ व्यवस्थाः By Neil Weinberg DAI Nippon Printing, Japan's largest printing company, lifted pre-tax profits by 4.6 per cent to Y74.87bn (\$534.96m) on

a 7.8 per cent increase in sales
to Y4.37bn (\$534.90m) on
a 7.8 per cent increase in sales
to Y2.031bn in the year to end
March 1991. It plans a memorial dividend of Y2.5 per share to celebrate sales above Y1,000bn for the

: takes com

ac show grou

May 21, 1991, London

INTERNATIONAL COMPANIES AND FINANCE

Japanese property income Rothmans Holdings lags expansion in sales

THREE leading Japanese real estate companies, Mitsui Real Estate, Mitsubishi Estate and Sumitomo Realty, enjoyed strong sales growth in the year to end-March 1991, but pre-tax profits did not keep pace under tighter financial conditions.

Mitsui Real Estate's sales rose 22.2 per cent to Y738.28bn, (\$5.31bn) although pre-tax profits were up only 8.7 per cent to Y57.31bn as the company's interest burden climbed Y19.5bn to Y60.35n. current year to surge to Y950bn, although pre-tax prof-its will remain virtually flat at

Y58bn. Mitsubishi Estate's sales climbed 7.5 per cent to Y338.41bn as land and office leasing income rose 8.7 per cent, while pre-tax profits were up 5.3 per cent to Y89.93bn. Sales in the current fiscal year are forecast to increase to Y350bn while profits will rise slightly to Y90bn Sumitomo Realty's sales gained 15.6 per cent to

Y187.17bn, and pre-tax profits 6 per cent to Y36.36bn, failing to reach double-digit growth for the first time in 11 years.

The strong sales performence was supported by less. mance was supported by leasing activities, which grew 25.1 per cent as 19 new office buildings came into operation.

are projected to rise 12.2 per cent to Y210bn. However, pre-tax profits are expected to be only marginally higher at Y37bn, due to the increased debt burden.

Hanwa falls | Koor back to profits at operating level

By Hugh Carnegy in Jerusalem

KOOR Industries, the trade union-owned Israeli group that has waged a four-year battle against liquidation, yesterday reported a hig reduction in losses in 1990 and a return to significant profits at the operating level for the first time since the mid-1980s.
Inflation-adjusted losses at

the country's biggest industrial group — whose interests include construction, chemicals, food and high-technology — were down to Shk99m (\$48.34m) from 1989's record

Shk700m as a restructuring began to show results. Koor said "irrefutable evi-dence" of the turnround lay in the operating profit of Shk150m, against a profit of Shk3m in 1989 and an operat-ing loss of Shk500m in 1987 at the height of Koor's troubles. Sales totalled Shk5.1bn, down more than 5 per cent from Shk5.4bn in 1989.

Ship on in 1999.

However, Mr Benjamin
Gaon, Koor's chief executive,
said the group's survival still
rested on a rescheduling and

from a year earlier, reflecting

Omron expects sales for

FOUGEROLLE S.A., Vélizy/Paris

has acquired a substantial interest in

WALTER BAU GROUP, Borken,

through its subsidiary

Fougerolle GmbH, Düsseldorf

TRINKAUS MONTAGU GMBH

Kasernenstrasse 12

4000 Düsseldorf 1

SAMUEL MONTAGU FRANCE ET CIE

Corporate Finance

6, Rue Piccini

75116 PARIS

write-off arrangement covering its debts, which total more than \$1bn. Koor has not paid any principal or interest on its debts since the end of 1989. Under the latest plan, which

would reduce outstanding debts to \$700m, the govern-ment has agreed to provide some \$50m in guarantees, and Hevrat Ha'ovdim, the indusnevrat Ha ovdim, the indus-trial arm of the Histadrut trade union federation which owns Koor, has agreed to inject \$25m in new equity capital and accept a rundown in its share-holding to 26 per cent. Israeli and US bondholders

have agreed a write-down and debt-equity swap arrangement. But the biggest creditors, the Israeli and foreign bank credi-tors, have yet to finalise terms. Mr Gaon said he was optimis-tic this would would happen by

accounted for by Koor's perennial problem units, Tadiran and Soltam, which respectively showed losses of Shk54m and Shk49m.

Control component maker

advances 2% to Y27.78bn

turns in A\$107m in competitive market

By Kevin Brown in Sydney

ROTHMANS Holdings, a subsidiary of Rothmans International yesterday announced a net profit of A\$107m (US\$83.5m), after extraordinary items, for the year to March 31 on sales of A\$1.62bn. Sales for the current year

Rothmans said the result was "pleasing" in the light of strong competition in the Australian tobacco market, nota-bly from Philip Morris of the US and W.D. & H.O. Wills of the UK.

The group said profit had increased by less than the rate of inflation, but the result was not comparable with earnings of A\$85.7m for the previous parties which was shortward to period, which was shortened to nine months because of a

after an extraordinary charge of A\$10.9m, reflecting the cost of withdrawal from the wholesale distribution and ware-

housing of confectionery.

The directors said the final dividend would be 37 cents, making a total of 68 cents a share, fully franked. Rothmans paid a total dividend of 47 cents a share in the previous

The share price rose 15 cents to a record A\$12.90 on the Australian Stock Exchange following the result.

Mr John Utz, chairman, said: "The intense competitive activity in the industry throughout the region is unlikely to abate, but the immediate and long change in accounting policy.

The net profit was struck term outlook for the group is positive," he said.

Adsteam shares fall after exchange lifts suspension

SHARES in two of the main companies in the loosely-knit Adelaide Steamship group were marked down heavily yesterday when a three-week suspension was lifted by the Australian Stock Exchange.

Adelaide Steamship, the flag-ship company, closed 25 per cent lower at 9 cents, and David Jones, the retailing group, closed down 13 cents at 30 cents. However, shares in Tooth, an investment company, rose by 4 cents to 38

Trading in the three was suspended after the collapse of a reconstruction plan which would have led to a merger with Industrial Equity, a joint-ly-owned subsidiary which owns the successful Wooleptember 30. Most of the 1990 losses were

worths supermarket chain and other assets. The stock exchange is believed to have dropped plans to reinstate the shares last week after the leaksames last week after the leak-ing of a prospectus for National Foods, a new com-pany being floated to acquire some of the leading brands owned by Industrial Equity.

The exchange agreed to lift the suspension after the pro-

spectus was registered with the Australian Securities Commission, the corporate watchdog. The Adelaide Steamship

group, formerly controlled by Mr John Spalvins, has until the end of the year to negotiate a reconstruction with its bankers, following a moratorium on the group's A\$6bn (US\$4.60bn) This announcement appears as a matter of record only.

THE BANK OF NEW YORK

is pleased to announce the establishment of a

SPONSORED 144A AMERICAN DEPOSITARY RECEIPT (ADR) FACILITY

The Privatization Of

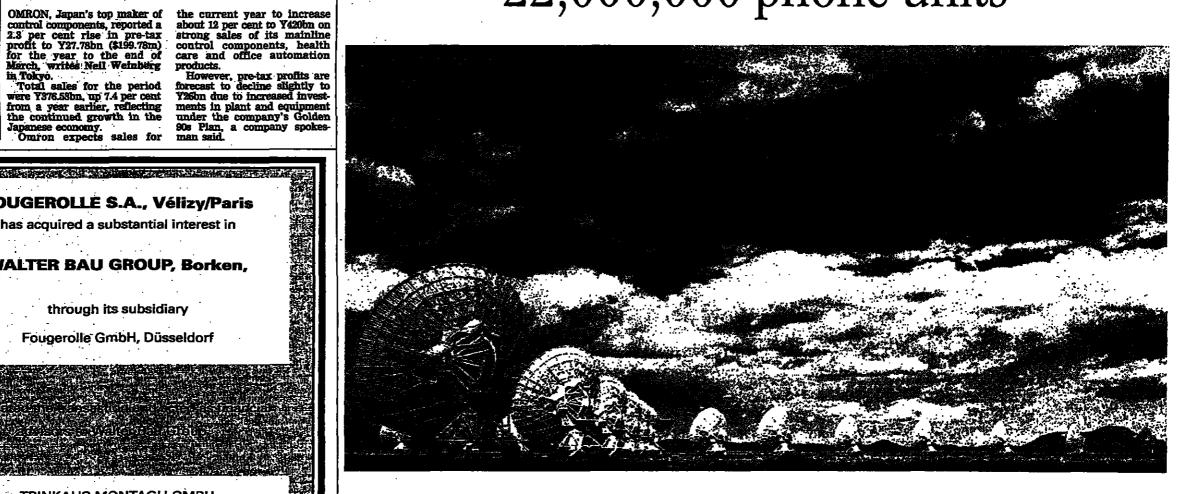


National Power



For further information regarding The Bank of New York's ADR Services, please contact Kenneth A. Lopian in New York (212) 815-2084, or Michael C. McAuliffe in London (071) 322-6336.

Our 1990 balance: 22,000,000 phone units



Close, worldwide communication with our customers is a hallmark of our individual counseling and personal service. The success of our diversified activities was made particularly evident in 1990 by lending business performance.

The high growth rate in the German economy generated strong demand from our customers for investment credits, as well as for operating capital and trade financing. **Partial Operating**

Loans to corporate clients alone rose by approximately one-third. Internationally, too, we succeeded in expanding our lending business to a disproportionately high extent; Group credit volume rose to DM 31,4 billion.

Additionally, our corporate finance activities were further intensified. In 1990 we introduced the shares of three

companies on the stock exchange, and in M&A counseling we achieved a transaction volume in excess of DM 1 billion through our subsidiary "Frankfurt Consult".

100

With in-depth counseling and customized problem solutions, we shall continue to cultivate the style of a merchant bank - a BHF-BANK tradition for more than 100 years.



BHF-BANK Group

BHF-BANK

Head office: Bockenheimer Landstrasse 10, D-6000 Frankfurt am Main 1, Tel. (069) 718-0, Fax (069) 718-2296, Telex 411026 (general) Branches and subsidiaries in Amsterdam, St. Helier / Jersey, London, Luxembourg, New York, Singapore, Tokyo and Zurich.

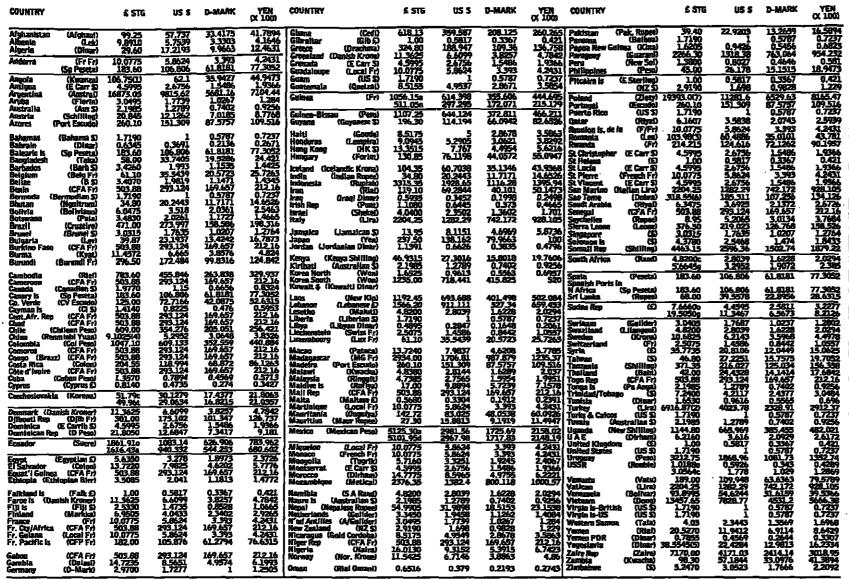


(Incorporated in the Kingdom of Norway with limited liability) U.S.\$100,000,000 Floating Rate Senior Notes Due May 1995 (of which U.S.\$75,000,000 has been issued as Initial Tranches) Notice is hereby given that the Rate of Interest has been fixed a 10.5% and find the interest population the relevant interest Payment Date November 21, 1991 against Coupon No. 13 in respect of US\$10,000 nominal of the Notes will be US\$536.67 and in respect of US\$250,000 nominal Notes will be US\$13,416.67.

interest period beginning 20th May, 1991, and ending 20th August, 1991, the next nterest payment date, will be 6%%. The amount of interes payable for such interest perior on each \$10,000 principal \$158.13.

FT GUIDE TO WORLD CURRENCIES

he table below gives the latest available rates of exchange (rounded) against four key currencies on Monday, May 20, 1991 . In some cases the rate is nominal. Market rates are the average of buying and selling rates except where they are shown to be otherwise. In some cases market rates have been calculated from those of foreign carrencies to which they are tied.



Only one airline flies daily non-stop from London, Paris and Frankfurt to Tokyo.



This announcement appears as a matter of record only.

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The Privatization Of





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THE CHUÇOKU **ELECTRIC POWER** COMPANY, INCORPORATED

Yen 20,000,000,000 Floating rate notes

Notice is hereby given that the rate of interest for the six month period 21 May, 1991 to 21 November, 1991 has been fixed at 7¹²/₁₅%. The amount payable on 21 November, 1991 will be Yen 399,306 per Yen 10,000,000

Agent: Morgan Guaranty Trust Company .jPMorgan

Fiduciery issue by Credietbank S.A. Luxembourgeoise to fund a loan to be made by it to Istituto per lo Sviluppo Economico dell'Italia

Meridionale ECU 100,000,000 Floating Rate Notes Due 1995

9.71253

nber 1991 ECJJ 4.994.17

U.S. \$10,000,000 The Chase Manhattan Corporation

Floating Rate Oil-Linked Notes due 1994

For the six months interest period from May 21, 1991 to November 21, 1991 the interest rate has been determined at 71% per arrum. The amount payable on the relevant interest payment date, November 21, 1991, will be U.S. \$370.56 per U.S. \$10,000 principal amount. pel amount.

O May 21, 1991

U.S. \$150,000,000

Chemical New York Corporation

Floating Rate Subordinated Notes Due 1996

Interest Accrual Period

24th February 1991 26th May 1991 (inclusive)

Interest Amount per U.S. \$10,000 Note due

6th June 1991

U.S. \$161.23

Credit Suisse First Boston Limited

U.S. \$150,000,000

First Bank System, Inc.

Floating Rate Subordinated Capital Notes Due 1996

Interest Rate Interest Period 6%% per annum 20th May 1991 20th August 1991

Interest Amount per U.S. \$50,000 Note due 20th August 1991

U.S. \$790.63

Credit Suisse First Boston Limited

U.S. \$250,000,000



BANK OF BOSTON CORPORATION Subordinated

Floating Rate Notes Due 2001

Interest Period

6%% per annum 20th May 1991 20th August 1991

Interest Amount per U.S. \$50,000 Note due 20th August 1991

U.S. \$790.63

Credit Suisse First Boston Limited

INTERNATIONAL CAPITAL MARKETS

Treasury prices firm on hopes of interest rate cut

By Patrick Harverson in New York and Sara Webb in London

SUGGESTIONS that Mr Alan Greenspan, chairman of the sidering further interest rate cuts, helped US bond prices firm in early trading yesterday. However, the market fell back later as dealers prepared for this week's large Treasury

By midday, the benchmark down & at 984, to yield 8.287

The two-year note held on to its morning gains, standing up at 1004, to carry a yield of 6.805 per cent. The early gains in prices followed reports that Mr Greenspan had said the Fed saw a risk that more action would have to be taken to ensure the economy recovered from the present rece comments, in a letter to a member of the Senate banking committee, immediately raised hopes that a further interest

GOVERNMENT BONDS

rate cut could be in the pipe However, the burden of this week's Treasury auctions -\$16bn of cash management bills today; \$12.25bn of two-year notes tomorrow; and \$9.25bn of five-year notes on Thursday - took the edge off the market's opening opti-mism, leaving prices in negative territory by the halfway

■ SWEDISH government bonds jumped in reaction to the linkage of the Swedish Krona to the Ecu. Traders see the link as an indication that Swedish interest rates will fall in the next few months.

Although yields at first fell most on shorter-dated bonds by the end of trading they had fallen 50 to 60 basis points across the range of maturities Some traders think they could see a further half percentage

9.000 01/01 103.7800 +0.100 8.40 8.42 100.2000 +0.001 8.92 8.92 104.0700 8.84 8.51 9.57 9.63 9.62 9.750 06/01 CANADA 8.500 03A01 99.1300 +0.100 8.63 6.63 8.80 13.000 07/00 114.4427 +0.379 10.50 10.95 10.99 AUSTRALIA 10,000 08700 104,9000 +0,050 9,17 8,93 8,97 **BELGIUM** London closing, "denotes New York morning session
Yields: Local market standard Prices: US, UK in 32nds, others in decimal

BENCHMARK GOVERNMENT BONDS

09/92

02/01 02/21

6/99 03/00

7.750 7.875

103-20 92-21 91-10

point fall in yields today as Swedish investors return from their Pentecost holiday. Others, however, predict that domestic investors may sell out of shorter-dated bonds. The yield on the 10-year

bond fell from Friday's close of 10.95 per cent to 10.44 per cent. Among the shorter-dated bonds, the yield on the govern-ment bond due 1998 fell from 11.53 per cent on Friday to

10.97 per cent.
Though most of Europe was closed for the holiday yesterday, some Swedish traders did work. London-based traders said the dealing was mostly over-the-counter, rather than via the primary dealing sys-tem. Volumes were reported to be reasonable. The National Debt Office is selling SKr5bn of the Series

1028 bond due 1999 - carrying an 11 per cent coupon - at auction today. Some dealers say the rally in the bond mar-ket yesterday could make it difficult to know how to place bids in the auction, leading to speculation that the "tail" (the range of bids submitted) could be quite long.

THE UK government bond market rallied following the US

Treasury bond market's rise on Friday. The market held out hopes of a cut in the base rate after the release of weakerthan-expected retail sales fig-

+02/32 10.46 +06/32 10.26 +12/32 10.08

+00/32 8.09 +02/32 8.28

88.5679 +0.025 7.01 96.7733 - 6.62

10.42 10.18 9.96

8.07 8.30

8.06

Traders said the 10 per cent gilt due 1996 rose by & to 96%. By late afternoon, it was yielding 10.31 per cent. The benchmark 11% per cent gilt due 2003/07 traded up & to 108% to yield 10.62 per cent. yield 10.42 per cent.

I JAPANESE government bonds also followed the US Treasuries strong lead on Friday, with prices traded up yes-

terday.

The yield on the No 129 benchmark JGB moved from 6.61 per cent to 6.595 per cent, prompting quite heavy selling and a fall in prices. The yield on the No 128 closed in Tokyo

at 6.63 per cent. The volume in the cash market was low at Y748bn, as many European investors were on holiday, and traders are apprehensive about investor demand for this week's June anction of ten-year JGBs. They expect some Y900bn to be issued with a coupon of 6.5 per cent, slightly lower than in last month's auction when the cou-

Amex Bank sells LDC long-term debt

AMERICAN Express Bank is selling its remaining portfolio of long-term Less Developed Country debt to a leading, but unnamed, European bank. This completes a four-year plan to get out of the LDC term lending business, writes Martin Dixon in New York.

The portfolio of Latin American debt is valued by the bank at \$351m. At the height of its third world debt exposure, in LDC borrowings on its balance sheet. This has been gradually whittled down through sales and debt/equity swaps.

Mr Steven Goldstein, the bank's president, said the sale would allow the bank to concentrate more closely on its core business of financial ser-vices to wealthy individuals, trade finance to busine correspondent banking services to financial institutions.

> مسر جائلة ور ·

1987, the bank carried \$2.2bn of

FT/AIBD INTERNATIONAL BOND SERVICE ELEC DE FRANCE 99
EUROPINA 9 LA 96
EUROP 经经经济经经济 THE PROPERTY OF STREET 941, 951, 951, 951, 951, 961, 961, 961, 961, 94. 97. 100 94

rate Con Japan Highway expected to launch \$300m issue NOVERNMENT BOTH By Simon London

JAPAN HIGHWAY, the and underwriting fees of 10 Japanese government backed agency, is expected to launch a \$300m 10-year bond issue today in the international bond mar-

The issue is expected to be lead-managed by IBJ and priced to yield around 45 basis points more than US Treasury

Other borrowers may look to the dollar sector of the market this week. However, although

INTERNATIONAL BONDS

demand for Eurodollar securities is buoyant, interest rate

ring potential borrowers.

Elsewhere, the European
Investment Bank is preparing
to launch a L500bn to L600bn 10-year issue, possibly tomor-row, lead managed by Banca Commerciale Italiana. Italian investors do not pay withhold-ing tax on bonds issued by the EIB and syndicate officials issue will be sold to Italian

investors.

Yesterday the market was subdued, with many European markets shut for public holidays. Bradford & Bingley became the latest UK mutual institution to issue sterling institution to issue sterling floating-rate notes, raising £100m over four years with a deal lead-managed by UBS

Philips & Drew.
The notes pay a margin of %
per cent over the London interbank offered rates and were reoffered to investors fo a fixed price of 99.54. At this price, the discounted margin is 26.62 basis points. The deal traded at 99.50 bid, against an issue price of par and full fees of 56 basis

***APrivate placement, \$Convertible, \$With equit after 3 years. b) Put option on 4/8/88 to yield Non-callable until 1/1/97 unless share price to Non-callable.

NO SERVICE

basis points were seen as fair. Several established firms have declined to participate in many of the sterling floating-rate deals this year, including last week's £100m five-year deal by the Woolwich Building Society, because fees were seen to be an inadequate reflection of under-

writing risk.
Yesterday's deal was priced to reflect the fact that the borrower, currently rated AA-3 by Moody's Investors Service, has been placed on credit watch and may soon be downgraded to single-A following the acqui-sition of the Learnington Spa

sition of the Learnington Spa Building Society.

The credit quality of many banks and building societies, at least as measured by credit rating agencies, has continued to decline this year. While the agencies sometimes disagree about the rating of each institution, the trend is still

Last week, Standard & Poor's downgraded the senior debt ratings of Banque Nationale de Paris and Societé Générale from AA+ to AA Also last week, Moody's cut the senior debt rating of Bank of Scotland from Aa3 to A1. Other big banks to have suffered downgradings this year include Barclays, which lost its covered triple A credit rating from S&P. It now stands at

Downgradings have come against a background of improving economic conditions in many of the big economies. Moreover, bond market inves-tors have shown an increased willingness to buy securities issued by banks and yield spreads have narrowed signifirantly since early spring.

For example, National

Westminster Bank's \$750m

subordinated debt issue was
launched in the US market in

The pricing was regarded as safe by participants in the deal, late April at a spread of 140 basis points over US Treasuries. By the end of last week the spread had narrowed to 120

basis points. The Eurobond market is behind the US in the rehabilitation of financial institutions as broadly acceptable issuers. If the current trend continues, however, some variable rate note (VRN) issues may soon successfully complete their

remarketing process. The interest margin on VRNs is determined at a three-monthly remarketing or auction process, subject to an upper limit or "fall back" mar-gin. If the fall-back margin is reached, the remarketing pro ss is suspended, making the instruments very hard to

So far this year, no VRN issue has completed a successful remarketing. All are illiquid in the hands of investors and are paying the fall-back interest rate.

Based on pure yield calcula-tions, this could soon change. On a swapped basis, NatWest's subordinated Yankee bond issue now pays around 65 basis points over the London inter-bank offered rate. The bank's \$200m VRN issue maturing August 2008 has a fall-back margin of 70 basis points over

tors which bought VRNs to manage short-term liquidity manage short-term liquidity may not be willing to risk being locked in at the fall-back margin again. These investors may now switch to other less complex forms of short-term investment, such as commercial paper, despite the rewards of VRNs in terms of absolute vield

 BOC Group, the UK industrial gases group, has doubled the size of its sterling commercial paper programme to £100m. NatWest Capital Mar-kets and Barclays de Zoete

Wedd are dealers to the pro-**NEW INTERNATIONAL BOND ISSUES**

Mr Zorde said Polish brew-eries needed enormous invest-ment because of a lack of basic

Danish bank Keeping a tight timetable on debt to handle Tracy Corrigan finds MTR confident of holding down interest costs big Polish

ONG KONG'S largest borrower, Mass Transit Railway (MTR), bas set brewery sale itself some ambitious targets. The company plans to repay its HK\$17bn (US\$2.2bn) debt by the end of the decade and to refinance substantial borrowings ahead of and beyond the colony's return to Chinese rule

SANKT Annf Bank, a small Danish bank, will handle an ambitious privatisation plan covering the entire Polish brewery sector.
The privatisation will cover
the privatisation will cover
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the privatisation will cover
the privatisation will cover. At the same time, the com-pany is trying to minimise its high interest costs against the

By Xueling Lin

in Copenhagen

INTERNATIONAL CAPITAL MARKETS

high interest costs against the negative impact of Hong Kong's political position and a worldwide squeeze on credit.

MTR, which carries 2m passengers a day, boasts a strong cash-flow, but expensive project financing has laden the company with its outstanding debt. Its interest costs last year \$250m. It will involve the sale of shares in the state-owned preweries as well as a new rights issue. mr Kristof Zorde, director of Sankt Annf Bank, told a Dan-ish newspaper the privatisa-tion agreement with the Polish government represented a sigdebt. Its interest costs last year came to HK\$1.7bn.

government represented a sig-nificant step for the bank. Sankt Annf was active in the privatisation of the Silesian Cable Factory, part of the first round of privatisations by the Polish government last year. Mr Roger Moss, MTR's finance director, is confident the company's cash-flow is "sufficient to cover the heavy burden of interest, given our The latest agreement was signed with the Polish minis-ter of privatisation, Mr Janusz projected operating profits". The need to counteract external uncertainties has fos-

tered advance planning. The The privatisation is the MTR finance team has projected cash-flows and borrowing first to cover not just a single factory but an entire indus-trial sector," said Mr Zorde. plans years in advance, con-structing a "preferred financ-ing model" which is split into different types of debt accord-ing to business projections. For The re-structuring of the brewery sector is a package deal which will cover everyexample, the company aims to hold 80 per cent of its borrow-ings in Hong Kong dollars. "We look at our future finanthing from financing, management to social and health con

The Polish breweries collect tively produce about 12m hek-tolitres of beer and spirits a year, quantities which rival those produced by some of the

The bank does not expect difficulties in the sale of the brewery shares, which are 100 per cent state-owned at present. The privatisation is expec-ted to take place via "bundles" made up of existing shares in the brewerles, which will be given a symbolic price, combined with a new rights issue at market value. Sale of the bundles will take place in Poland as well as overseas. The structure for the priva-

tisation has been worked out by Sankt Annf Bank. It expects the "bundle" system to be used again in subsequent privatisations in Poland if it proves successful for the brew-

fund-raising can then be

matched to theoretical require-ments through the use of the

swap market. (MTR's ability to

use the swap market was writ-ten into its ordinances earlier

this year, after a ruling that UK local authorities were not legally empowered to enter swap agreements prompted

swap agreements prompted concern about MTR's status.)
Despite the political uncertainty facing Hong Kong, MTR's credit rating has held up relatively well. Its foreign currency debt is rated A3 by Moody's and A by Standard & Poor's, having dropped a notch after the Tiananmen Square massacre in 1989

MTR has so far been able to ess ahead with its financing

plans. Next week, a Y5bn (\$35.97m) shibosai – a private

placement in the Japanese

domestic market - will be

signed. The seven-year deal is the first debt which matures

massacre in 1989.

issue of this kind to be paper for its own account. Of

with European investors, centred on London. issued at par and carry a cou-pon of 9% per cent, payable

twice a year. Conversion into Apasco com-

were squeezed by recession.

US\$100m five-year issue of floating-rate notes with Hong Kong dollar debt warrants attached.

after Hong Kong's return to

China in 1997. This week, MTR signed a

An MTR station: cash-flow sufficient, says company

These deals, added to a HK\$750m loan facility arranged by Wardley, have allowed MTR to complete half its HK\$4-5bn borrowing programme so far this year (MTR's financial year ends in December).

However, MTR has seen its borrowing costs rise as a result of Hong Kong's precarious position. In the last two years, MTR has been forced to raise its funding target by about 20 basis points, to around 45 basis points above the London interbank offered rate. However, concern about Hong Kong's political situation broadly coin cided with a worldwide tightto meet new guidelines for capital. Consequently, Mr Moss says, it is difficult to apportion blame for the rise in funding

But with many European and US borrowers having experienced similar increases in costs of funds - while China has had a hundred basis points added to its financing costs -MTR appears to have escaped relatively lightly.

Despite its recent achievement in funding a little beyond the date for Chinese rule, MTR is still struggling to extend its maturity profile, since nearly all its debt matures before 1897 and some will have to be refin

"We like to have our financing pre-arranged 18 to 24 months ahead," said Mr Moss. There is provision for pre-funding of up to HK\$2bn, which is then invested in the financial markets.

Later this year, MTR will again look to Japan for financing, probably with a public issue in the domestic market. MTR is also considering setting up a US medium-term note pro-Euro-MTN programme (to which it also plans to add some

dealers). The company will consider carefully whether to use derivative products other than swaps to reduce costs. On two previous deals. MTR has sold floor options on the US dollar, to reduce overall funding costs. Those positions were not hedged, as the company was taking a view on the market.

Apasco places \$50m in debentures

APASCO, the Mexican cement producer, has raised \$50m of equity-linked capital from a placing of convertible subordi-nated debentures with international investors.

cing requirements against the model, and against the reality

of the markets," said Mr Roger

Moss, MTR's finance director. The practical considerations of

The placing was arranged by the International Finance Corporation, the arm of the World Bank devoted to the private sector in developing countries, and Bear Stearns.

The transaction is the first in which a Mexican company has issued convertible subordinated debentures in the international capital markets. It is also the first international arranged by the IFC.
The IFC is buying \$20m of the remaining \$30m, about half was placed in the US and half

The six-year bonds were

mon stock is based on a formula which takes into account the current market price of the shares and the company's book value

per share, expressed in US dollars. Apasco has been a client of

the IFC since the mid-1980s. In 1988, the company set up a \$46m Eurocommercial paper programme backed by the The IFC said it expected its

newly-merged securities and syndications unit to arrange more equity-linked transac-tions of this kind. Among the potential issuers are many of 136 Mexican companies privatised since President Carlos Salinas came to power

Heyman elected SEC's market watchdog

MR WILLIAM H. Heyman, a former top Wall Street execu-tive, has been appointed head of the Securities and Exchange Commission's Market Regulation Division, officials said, AP-DJ reports from New

Mr Heyman replaces Mr Richard Ketchum as top stock market watchdog for the SEC. He had joined the agency as Mr Ketchum's deputy in February. Before that, he was a managing director and head of arbitrage at Smith Barney, Harris Upham.

LONDON MARKET STATISTICS

• The Financial Times Ltd 1991. Compiled by the Financial Times Ltd In conjunction with the institute of Actuaries and the Faculty of Actuaries **EQUITY GROUPS** Monday May 20 1991 & SUB-SECTIONS Est. Gruss Earnings Div. Yield% Yield% (Max.) (Act at (25%) Est. P/E Ratio (Ret) ho. Day's Change Index No. | 3 Contracting, Construction (31) | 1325-48 | 4 Electricals (10) | 2359-74 | 5 Electronics (25) | 1748-76 | 6 Engineering-Aerospace (80 | 428-45 | 7 Engineering-General-(47) | 435-73 | 8 Metals and Metal Forming (8) | 447-84 | 9 Motors (13) | 322-27 | 10 Other Industrial Matterials (20) | 1474-88 | 21 CONSUMER GROOP (1877) | 1441-96 | 22 Brewers and Distillers (22) | 1797-16 | 25 Food Manufacturing (20) | 1153-26 | 26 Food Retailing (16) | 2737-94 | 27 Health and Household (21) | 3262-37 | 29 Hotels and Leisure (23) | 1311-30 | 30 Media (26) | 1440-87 | 31 Packaging, Paper & Printing (16) | 658.11 | 34 Stores (33) | 892-17 | 35 Textiles (10) | 532-72 | 40 OTHER GROUPS (108) | 1220-92 | 41 Business Services (13) | 1220-92 | 42 Chemicals (21) | 1339-90 | 43 Conglomerates (10) | 1486-77 | 44 Transport (14) | 1212-91 | 45 Electricity (14) | 1212-91 | 46 Telephone Networks(4) | 1482-45 | 47 Water(10) | 2445-95 | 48 Miscellaneous (22) | 1872-93 | 49 DabUSTRIAL GROUP (481) | 123-95 | 100 Sees (190) | 2368-55 | 100 Sees (190) | 1236-55 | 49 INDUSTRIAL GROUP (481). 51 011 & Gas (19)..... 59 500 SHARE INDEX (506) 57 500 STARE INNEX (509) 61 FINANCIAL GROUP (97) 62 Banks (9) 65 Insurance (Life) (7) 66 Insurance (Brokers) (8) 67 Insurance (Brokers) (8) 68 Merchant Banks (7) 69 Property (40) 70 Other Financial (20) 71 Investment Trusts (70) Index Day's Day's Day's May <th

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By David Churchill,

Leisure Industries

Correspondent

Thos Cook

travel chain

THOMAS COOK, the travel agency owned by Midland Bank has told its 1,200 staff

that it is no longer up for sale. Mr John Donaldson, Cook's chief executive, has written to

the 1,200 staff saying that Mid-land has decided not to sell the

travel chain.
The move follows months of speculation that Cook it would

Survival depends upon successful outcome to refinancing talks

Brent Walker to put plan to banks

By Maggle Urry

THE ENORMITY of the task facing Brent Walker and its hankers became clearer yesterday with the publication of results for 1990 and a year-end

Net assets had dwindled to £139m, and the notes to the accounts suggest that even this would disappear if the group's properties were sold in a disor-derly fashion.

The company said that its ability to operate as a going concern was dependent upon successful talks with its banks and "the continued provision of adequate short-term finance by the group's bankers until the financial restructuring has

been agreed".

Brent Walker is putting its business plan to the steering committee of its 60 or so banks today. The committee, headed by Standard Chartered Bank, will consider the plan and if it decides to accept it will put it

By Andrew Bolger

PROWTING, the Middlesex-based housebuilder

which concentrates on the south-east of England, blamed

soun-east of England, mained the industry's unprecedented recession for a "disappointing" drop in pre-tax profits from £16.1m to £7.5m in the year to

February 28.
The number of houses sold fell only slightly from 307 to 296, with the average selling price down from £141,000 to £120,000. This reduction

resulted from lower prices and a change in the group's mix towards smaller, higher-den-

sity houses. Prowting said: "We have a

continuing policy of trying to maximise margins rather than sales volumes in order to reap

the best advantage from our valuable land bank."

Turnover fell 35 per cent to £40.8m (£62.9m), reflecting not only the lower prices, but also

reduction in the amount

of surplus, undeveloped land

Earnings per share fell from 16.9p to to 6.9p. A final divi-dend of 3.3p maintains the

total at 5p.
"Prowting said that at the year-end it controlled some

5,500 plots with planning per-mission or zoned for residen-

tial use, an increase of

previous year. The forward

Recession-hit Prowting

more than halved at £7.5m

Brent Walker owed its banks a net £1.2bn at the end of December. However, this has risen since as the group's trading profits have not covered interest charges. The banks must decide whether to let Brent Walker make a 26.6m interest payment on Thursday due on its £101.9m of convertible bonds. The bondholders rank below the banks in the hierar-

The leisure group, of which Mr George Walker is chief executive and largest share-holder, turned in a rise in operating profits for 1990, to £122.2m (£112.9m). However, the gain was greater at the interim stage when operating profits were reported at £93.1m against £48.1m.

chy of creditors.

A large part of the increase came from the purchase of the William Hill betting shop chain in December 1989. This contrib-uted for only a couple of weeks

land bank, on which the com-

The balance sheet showed in the 1989 figures. Operating profits from betting in 1990 were £57.1m (£5.8m).

All the divisions increased operating profits. Hotels, leisure and related activities made £15.1m (£12.6m); brewing, wines and spirits contributed £20m (£18.4m) and leisure developments made £34.8m (£22.9m). There were no property profits compared to a £30.3m gain in 1989. Profits from businesses sold were 23.4m (£27m).

The group's problems stem from its high level of debt and the fall in the property market. Its gross interest charge was £195m (£82.2m) but was cut to a net figure of £116.2m (£44.1m) by capitalising some interest and including other amounts under exceptional and extraordinary items.

Exceptional items included

siam of costs relating to the group's refinancing last November, with another

£24.1m written off against investment and development properties. The company has also written off £15.9m of advance corporation tax.

Below the line, extraordinary debits of \$201.7m (credits of 252.5m) related to the write down of properties which are due to be sold and losses taken on sales completed. These included a £115.1m loss against the group's media interests and £73.5m against hotels, lei-sure and related activities. The extraordinary costs included £3.7m related to the £101.9m convertible bond issue last

be sold to ease Midland's November. financial problems. The bank cut its dividend in February after announcing pre-tax prof-its of only £11m for 1990 and The balance sheet includes as debt the £50m owed to Grand Metropolitan as the final instalment of the 5685m purchase of the William Hill chain. Brent Walker is still dishas attempted disposals of sev-eral subsidiaries, including Forward Trust, its finance puting the purchase price, which it thinks should have

house. Thomas Cook, one of the group's strongest performers, was not formally placed on the market but Midland is under-stood to have received several

its asking price.
The decision appears to have been taken by Mr Brian Pearse, the new chief executive who arrived from Barclays in the wake of the announcement of Midland's

In 1990 Cook's pre-tax profits were £28m on turnover of £370m. It has 334 shops in the UK and 1,500 in Europe.

Disposal to cut debt at Systems Reliability

By Roland Rudd

Systems Reliability Holdings, the computer systems manu-facturer and telephone systems designer, yesterday announced a £12m management buy-out of its telecom-munications and information technology businesses.

technology businesses.

The group also reported a fall in pre-tax profits from £7.58m to £7.58m for the year to end-December. Turnover was up from £134.58m to £183.15m.

The sale will strengthen the holding company's balance.

holding company's balance sheet by reducing its £12m debt by £8.5m. The group is to focus on its core activities.

The recommended final divi-

dend of 1.5p raises the total to 2.5p (2.25p). It is covered almost three times by earnings per share of 7.4p (12.76p).

Ferromet joins dividend

pany hopes to obtain permission, stood at 3,500 potential Mr Terry Rowdon, chief executive, said: "There is light at the end of the tunnel, although much will depend on the timing and the pace of recovery in the UK housing

• COMMENT

Prowting's focus on the southeast means it felt the full force of the recession, but the fami-ly-controlled company has also benefited from hopes that lower interest rates will enable housebuilding to bounce back.
Volumes will no doubt
improve, but results will be
restrained in the short term by continuing pressure on mar-gins and the group's move towards cheaper houses. The company is favoured by institutions because of its land bank, probably the best in the business. The catch is that this quality and the group's strong medium-term prospects are now more than reflected in the price of the tightly-traded price of the tightly-traded shares. Forecasts of a modest £8.5m pre-tax puts the shares, down 5p yesterday to 178p, on a hefty prospective multiple of 22. There are cheaper ways of betting on an end to housing market gloom.

list despite 55% decline FERROMET GROUP,

supplier of raw materials from the US to the stainless steel industry in Europe and south east Asia, is to pay a maiden dividend despite a 55 per cent drop in taxable profits for 1990.

The USM-quoted company blamed the recession on both sides of the Atlantic for the drop from £1.38m to £624.318 in pre-tax profits. Turnover fell by some 27 per cent to £48.29m. The comparative figures cov-

ered a nine-month period.

Mr Roger Wain, chairman, said the group was also affected by the weak dollar and the Gulf war. "During the last quarter business between the US and Korea came to a grind-

Despite the disappointing result the group is to pay a dividend, a nominal 0.05p, for the first time in its seven year history.
Mr Wain said he had prom-

ar wan said he had promised shareholders last year that the company intended to pay a dividend. He hopes to pay a bigger dividend by the end of the current year. The group changed its name from Clogau Gold in 1989 when it acquired Ferromet Resources, the US scrap metal company. The American business was recently strengthened with the acquisition of a deep water facility in Alabama.

A joint venture with West-gold, part of the Minorco Group, is studying whether it is financially feasible to mine a geological reserve of 5.5m tonnes at 0.0338 gold per tonne.

Borrowings have risen from £12m to £18m. Mr Wain said the increase was due to the cyclical nature of the trading The dividend is covered 3.4 times by earnings per share of 0.17p (0.57p).

O COMMENT

Shareholders expect dividends. So last year Mr Wain told them what they wanted to hear: Ferwhat they wanted to hear: res-romet would be paying its first dividend when it reported its 1990 year end results. Nothing wrong in that. The only prob-lem was that the promise was made before the fall in the value of the dollar, and more importantly the start of the Gulf war. But a promise is a promise and so the group decided to pay out a nominal dividend and hopes to increase the distribution by the end of the current year. But this time the chairman is wisely refraining from promising anything. The market expects a slight increase in profits, putting the shares on a prospective multi-ple of 10. Investors looking for a substantial dividend are

likely to be disappointed.

Midland not | Sedgwick first quarter static at £42.6m despite cost cuts

SEDGWICK, the international insurance group which enforced swingeing cost cuts last year, has announced static profits for the first quarter. The pre-tax figure for the three months to the end of March came out at £42.5m against £42.5m last year.

This result came after Sedgwick had already reported sharply lower pre-tax profits of £59.3m for the full year after £21.4m exceptional charges for redundancies and closures,

especially in the US.
Commenting on the first three months, Mr David Rowland, chairman, warned that insurance markets were continuing to be soft.

However, he pointed to a two per cent reduction in expenses

at constant exchange rates in the first quarter. This, he said, was evidence of the benefits of Sedgwick's long-term cost-cutting programme coming

He said that last year's heavy cuts in its US operations allowed Sedgwick James, the international retail business, to show an improvement in trading on last year during the first

Mr Rowland added that the current strength of the dollar was an encouraging factor. With some 60 per cent of revenues in dollars, the weakness in the US unit against sterling during the first quarter, compared with the comparable 1990 period, had had a significant adverse impact.

Without taking into account exchange rate changes, reve-ques for the quarter were \$163.9m (\$197.9m) and expenses £138.9m (£152.1m). Operating income provided £169.2m (£179.8m) of revenues and, interest and investment. income £14m (£17.5m).

mill

Sible

Sedgwick Broking Services was beginning to benefit from an "initial hardening" in some parts of the marine market.

Meanwhile, premium rates for standard risk in North American and most other insurance a although in London increases, had occurred in certain speci-

alised areas.
Examings per share for the first quarter worked through.

Robert Maxwell attacked over Central & Sheerwood deals

By Michiyo Nakamoto

MR ROBERT Maxwell, the media magnate, became the target of criticism from shareranger of crimesan from scare-holders in Central & Sheer-wood, the engineering and property group of which he is chairman, when he falled to appear at both its AGM and subsequent EGM yesterday. The EGM had been called to

agree restructuring proposals for the group, including the acquisition of two companies controlled by Mr. Maxwell, who owns a 20.7 per cent stake in C&S.

Shareholders criticised the absence of Mr Maxwell and his son Kevin, both of whom are directors of the company, to explain the conditions of the acquisitions announced last

"I think it shows remarkable disrespect," said one upset shareholder, while another left the room saying "this is a Mr Dick Rimington, deputy

chairman, explained that Mr Maxwell was extremely busy. The acquisition deals call for C&S to acquire Lock, which designs, assembles and sells electronic metal detection equipment, and Petroleum Seals & Systems, a manufac-turer of industrial rubber products and seals which are subsidiaries of Headington Investments, of which Mr Max-

investments, of which air Max-well is chairman.
It is also acquiring Transfer Technology, an electronics group, founded and owned by Mr Geoffrey Robinson, another director of C&S, who also has an operational interest in PSS and its subsidiaries. The acquisitions are to be

made for a total cash consider-ation of £1.75m and the issue of 271.2m shares at 3p per share. The shares closed at 4%p yesterday.

The deal increases Mr Max-well's stake in the enlarged group from 20.7 per cent to 27.2 per cent. Mr Robinson, who will acquire 28.1 per cent in C&S as a result of the deal, is replacing Mr Maxwell as chief executive.

Meanwhile, Robert Fraser Group, the merchant bank, is to dispose of its 98.27m shares in C&S, or approximately 28 per cent, following the decision by C&S to cease its property activities. These shares are heing placed with institutional investors, also at 3p each. Independent shareholders are angry that the shares in the company are being issued to companies controlled by Mr Maxwell and Mr Robinson and placed with institutions at lower than their market price, while independent sharehold-ers are not able to buy at that:

low price. "It's a bloody carve up,"

"It's a bloody carve up,"

exclaimed Mr Peter Adams, a shareholder. He has been trying to buy shares in C&S since the beginning of the year at 3%p and has not been able to hay any at first reing any at first reing any at that reing any at the trying any at the trying

buy any at that price.
"We don't mind you belping yourselves to a large share of the cake, but when there is,

fair share," he said.

Mr Adams's proposal for a rights issue which would enable independent sharehold ers to also benefit from the issue of new shares at an attractive price, was, however, rejected and all the resolutions put to the meeting were even-tually passed, including a change of name to Transfer-Technology Group.

Goldsmiths dives sharply to £2m

GOLDSMITHS GROUP, the its watch suppliers, jewellery chain, reported a A final dividend of 15p will jewellery chain, reported a sharp fall in pre-tax profits from £4.06m to £1.9m in its first year as a public company, writes John Thornhill.

The recession, poll tax and the high level of interest rates were held to blame. In the 12 from £39.58m to £41.46m but higher costs reduced operating profits to £4.75m (£6.92m). Mr Jurek Plasecki, chairman

and chief executive, said the tough trading conditions began to have an adverse impact on the business from June onwards and coincided with some big price increases from

bring the total maiden divi-dend to 3p.

O COMMENT

Goldsmiths Group has had a rough ride since it returned to the market via an offer for sale a little more than a year ago. The high street recession has deepened since then and the company's share price has con-sistently headed south from its original flotation price of 150p.
The company is taking a hieak
view of current trading prospects — rightly so in the light
of yesterday's dispiriting retail

seems little hope of an early recovery in the shares either.
This year, Goldsmiths will do
well to maintain profits at last. year's level; the weaker trading should be offset by the com-pany's strenuous efforts to cut costs; but earnings will improve marginally due to a improved tax position giving a prospective multiple of 8 shares are underpinned by a reasonable dividend yield and have little further downside They are unlikely, however, to move ahead greatly from yes-terday's closing price of 50g until there is a roster glow on

the high street.

** ****

Silva manager

Maria Survivina

Insurance Group

AEGON N.V., registered offices at The Hague, The Netherlands

1990 fiscal year was fixed at Dfl. 2.10 in cash per Ordinary Share of Dfl. 5.00 nominal value – already made payable as interim dividend – and a final dividend that amounts to Dfl. 5.00 per

The final dividend may at the option of the shareholder be taken entirely in cash or Dfi. 1.25 in cash and nominal Dfi. 3.75 in new shares, chargeable to the tax free paid-in surplus or if so required out of 1990 net income.

Except for holders of New York shares, the final dividend will be payable from May 30, 1991 at

Amsterdam-Rotterdam Bank N.V., Algemene Bank Nederland N.V., Cooperatieve Centrale Reiffelsen-Boerenleenbank B.A., NMB Postbank Groep N.V., Pierson, Heldring & Pierson N.V., Bank Mees & Hope N.V., Kradietbank N.V., Brussels, Kradietbank S.A., Luxembourgeoise, rg, Schweizerischer Bankverein, Schweizerische Kreditenstalt, Schweizerische Ischalt, Zürich, Basel and Geneva, Deutsche Bank Aktiengesellschaft, Düsseldorf, J. Henry Schroder Wagg & Co. Ltd., London.

For shareholders wishing the dividend totally in cash, dividend coupon no. 28 will pay Dfl. 1.25, no. 29 will pay Dfl. 2.68, and no. 30 will pay Dfl. 1.07 after deduction of 25% dividend tax.

Shareholders of Ordinary Shares who opt for payment in shares will receive one new Ordinary Share of Dfl. 5.00 upon surrender of dividend coupon nos, 29 or 30 from 40, or from 100 Ordinary Shares, respectively, which new shares will participate fully in the results for 1991 and subsequent years, Dividend coupons nos. 29 and 30 rank pari passu.

After June 28, 1991, the final dividend is only payable in cash. Coupons should be surrendered to N.V. Nederlandsch Administratie en Trustkantoor, N.Z. Voorburgwal 326-328,

The published rates of commission will be paid to members of the Amsterdam Stock Exchange to enable them to exchange dividend coupon nos. 29 and 30 without charging on to Shareholders. Rights to payment of dividend in the form of Ordinary Shares will be made available to holders of CF Certificates through the intermediary of the institutions acting as custodians of the coupon sheets to their shares at the close of business

Shareholders requesting their bank to accept/release securities in connection with the surrender of coupons will be charged the usual standard fee for deposition/ withdrawal according to the schedule of charges of the Association of Natherlands Bankers (Nederlandse

The Executive Board The Hague, May 16, 1991

TOPS SERIES II LIMITED

(Incorporated with limited liability in the Cayman Islands)

U.S. \$100,000,000

Series II Amortising Floating Rate Trust Obligation

Participation Securities due 1992

Secured by a Charge on a Portfolio of Fixed Rate Bonds

and Notes with an aggregate principal amount of

U.S. \$125,100,000

For the period 20th May, 1991 to 19th August, 1991, the securities will carry an interest rate of 6%% per annum with an interest amount of U.S. \$3,666.51 per U.S. \$250,000 (original principal amount) and U.S. \$7,333.03 per U.S. \$500,000 (original principal

Listed on the Luxembourg Stock Exchange

DIVIDENDS ANNOUNCED

	payment	payment	dividend	Age.	
sec Brit Foodsfin	8.5%	Sept 2	7.7	12.2	_
rent Walkerfin	ទៅ	-	10	5	
erromet §fin	0.05	June 28	-	0.05	
loidsmithsfin	1.5	Sept 2	1.4	3	
ialis Homes §fin	nil	-	4	1	
rowthyfin	3.3	-	3.3	5	
ystems Reliablyfin	1.51	July 22	1.5	2.5	

Dividends shown pence per share net except where otherwise stated. "Equivalent after allowing for scrip issue, 10n capital increased by rights and/or acquisition issues, §USM stock. §Second interim for 18-month period to September 14.

BOARD MEETINGS

GLOBAL GOVERNMENT PLUS FUND LIMITED International Depositary Receipts representing 100 common shares OFFER TO PURCHASE

The Board of Directors of Global Government Plus Fund Limited authorised on April 29, 1981 an offer to purchase to 25% of the Company's Issued and outstanding common shares (the offer). The offer will be made by the Company to all registered holders of its common shares in accordance with the terms of the Company's bye-laws. Under the terms and conditions of the offer, a shareholder wishing to accept the offer shall be required to tender all of his shares. The purchase price payable for each common share tendered and accepted by the Company for payment will be the net asset value of the Company on June 19, 1991 divided by the total number of issued and publishing presence alternate

The offer will be made conditional upon, among other things, the Company's ability to liquidate its portfolio securities in an orderly manner and consistent with the Company's investment poticles and objectives in order to finance the purchase of the shares. If more than 25% of the Issued and outstanding shares are validly tendered under the offer, the Company will purchase only 25% of the shares on a pro-rate basis (disregarding fractions) in accordance with the number of shares tendered by each shareholder. IDR-holders who wish to sell sheir shares under this offer must:

1) deliver the IDAs with coupon number 35 attached, to Morgan Queranty Trust Company of New York at the address indicated below, by May 27th, 1981 and 2) send the following to the same address by May 27th, 1991:

2.1 a certification in the form imposed by the Company avail address indicated below, completed and signed by the benef owner of the IDRs, declaring the owner is sendering all his shares and not less than all for purcha

an instruction containing all of the following items: 2.2.1 an indication of the identity of the beneficial owner

2.2.2 payment instructions for the US\$ proceeds of the purchase 2.2.3 registration and delivery instructions for shares not purchased by the Company if the Company only purchases shares on a pro-rate basis

Although IDR coupon number 34 will only be payable on June 7th, 1991 IDR-Holders accepting the offer will be entitled to this dividend. If the shares are accepted for purchase, a service charge of US\$ 25 due to the Company, an IDR cancellation lee of US\$ 10 per IOR and the expenses incurred by Morgan, Brussels, will be deducted from the proceeds.

MORGAN GUARANTY TRUST COMPANY OF NEW YORK 35 Avenue des Arts, 1040 Brussels as Depositary .

sales figures from the Central

"The growth in our Financial Services Division, in particular, has reflected the larger unsecured loan facilities which are now available to our higher income customers and we expect this trend to continue."

Derek Coombs - Chairman

The following are extracts from the circulated statement of the Chairman * The results for the year to 31 January 1991 show pre-tax profits increased

from £2.8m to £3.4m on a turnover of £46.3m.

* Earnings per share rose from 17.80p to 21.53p.

* A final dividend of 6p is recommended (1990: 4.5p) making 8p for the full * Once again this performance has been achieved through internal growth

without acquisition. * The quality of our credit is very closely controlled and is fundamental to the sound development of our business.

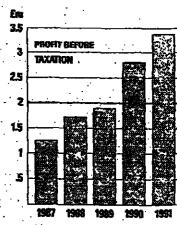
* It is too early to give forecasts for 1991/1992, particularly in these recessionary times, but we believe shareholders will not be disappointed.

From the 1991 Annual Report

* PRE-TAX PROFITS UP 22.5% TO £3.4m

* DIVIDEND UP 33%

* EARNINGS PER SHARE UP 21%



For a copy of the 1991 Annual Report & Accounts write to: The Secretary, S&U Stores PLC, 51/53 Edgbaston Street, Birmingham B5 4QR

Bankers Trust Company, London

amount) payable on 19th August, 1991.

Agent Bank

FORST AUSTRALIA PRIME INCOME INVESTMENT COMPANY LIMITED

International Depositary Receipt insued by MORGAN GUARANTY TRUST COMPANY OF NEW YORK Notice is hereby given to the si

Pryment of coupus number 31 of the International Depository Receipts will be made in US dollars on or after May 22nd, 1991 at the rate of USS 0,0055 per rodinary share at the following offices of Morgan Caurardy Trust Company of New York: New York, 30, West Broadway 25, Avenue des Arts

1. Amorel Court 44/46 Mahmer Land The dividend is not subject to any Amstralian tax. The Beigian withholding tax will be applicable to IDE holding Assistance was applicable to EDE holders presenting their components to the effices of the Depository without the appropriate non-Belgian pesident certificate.

MORGAN GUARANTY TRUST COMPANY OF NEW YORK

Andrew Taylor and Charles Leadbeater on the political reaction to Hanson's stake in ICI while Diane Summers gives the unions' views

OSt Cuts MPs unite in opposition to possible bid

MPs with Imperial Chemical Industries plants in their constituencies yesterday warned that a bid for the company by Hanson, the acquisitive con-glomerate, would face mounting political opposition.

The response confirms that the government would face considerable pressure from its considerable pressure from its own supporters to make sure ICI was not broken up by Hanson, which last week acquired a 2.8 per cent stake.

As the map, right, shows, the spread of ICI's involvement in the UK economy gives it a considerable political significance.

The company has a UK workforce of 53,000 employed at more than 70 sites throughout the country, 32 of which employ 200 or more people. Its activities directly affect more than 40 Parliamentary constituencies, some of them Conservative marginals.

In the next few weeks much could turn on how the two

could turn on how the two

ical resources.

Mr Nicholas Winterton, Conservative MP for Macclesfield where ICI employs about 1,700 people said: "I am absolutely appalled at the prospect of a bid for ICI. I cannot see that Hanson can do anything for ICI that ICI could not do for

He added: "If a bid is made I will put pressure on my party and ministers to ensure it does not succeed."

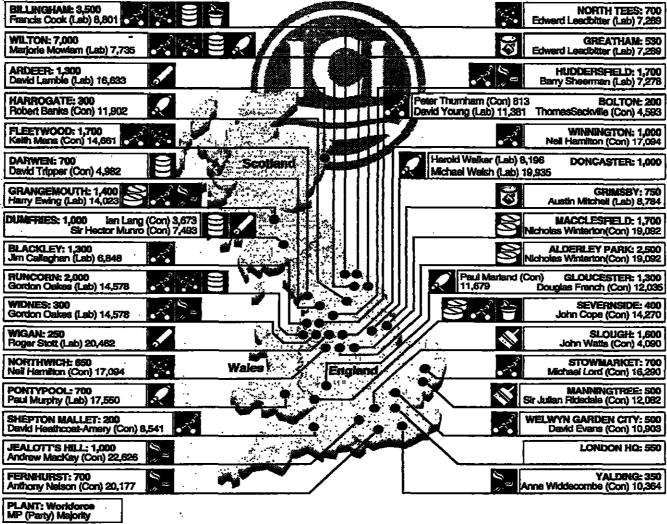
Mr Douglas French, Conservative MP for Głoucester, who represents 90 per cent of the workers at ICI's plant in the city, said: "I view with some misgivings the possibility of control passing to Lord Hanson because, brilliant though he is, I do not think that his greatest abilities lie in the sustained management and progress of a Dr Marjorie Mowlam, opposi-tion spokesman on city and corporate affairs and MP for Redcar commented: "A bid by

Hanson would be opposed by the people of Teesside on sev-eral levels. While some might criticise ICI on environmental grounds, Hanson's record is much worse and investment, particularly in research and development would suffer Mr Harry Ewing, Labour MP for Falkirk, whose constitu-ency includes ICI's Grange-

mouth complex said: "I am horrified at the thought of a takeover. ICI is a well managed company, with good industrial relations. All that would be put at risk with a bid. The government could not stand by and see a national institution endangered."

Pharmaceuticals Paints Specialist chemical

₩ .~?



Unions warn of fight on a scale never seen before

TRADE UNIONS at Imperial Chemical Industries yesterday launched what they claimed would be a campaign "on a scale never seen before" as a pre-emptive move to influence public opinion against any bid for the company from Han-

The first stage of the campaign will be to press the Office of Fair Trading for an investigation on the basis that a Hanson takeover would alleg-edly be against the public

In addition the European Commission will be asked to start immediate investigations. The unions also threatened to exert any pressure they could through pension fund investors

in the company.

Mr Fred Higgs, secretary of the union side representing 22,000 process and craft workers said: "We're confident that it has been decided to the second control of the second control if Hanson decides to go ahead with a full-blown takeover he's going to discover he's bitten off more than he can chew." The six unions – the TGWU and GMB general unions, AEU

engineering union, EETPU electricians union, MSF general technical union and the construction union Ucatt -had a brief meeting with ICI management today to inform them of the campaign. The company said it would "watch with interest". be detrimental to the unions' members, the company and the long-term future of the whole company, said Mr Higgs. "It is our view that Hanson is a vandal of British industry," he

The unions feared that the component parts of the com-pany would be sold for a quick pany would be som for a quick return on Hanson's investment. There were particular fears for the pension fund. "On two occasions court action has had to be taken to prevent Hanson taking surpluses out of pension funds," said Mr Higgs.

The ICI unions were yesterday due to meet representa-

day due to meet representatives of other unions at the Trades Union Congress to discuss the issue. An early meet-ing is also being sought with Labour's front bench trade and industry team.
In a further move the union

intend contacting members of the European Parliament and local councils, in which the company's plants, numbering more than 70, are situated.

Separately, blue collar unions yesterday indicated that they were likely to reject a 6.4 per cent pay offer from the company. The increase, which would take effect from June 1, would be in addition to a 14 per cent rise and a cut in the working week at present on offer in local councils, in which the ing week at present on offer in exchange for an impro in working practices.

Boddington questions Devenish asset value

By Philip Rawstorne

BODDINGTON, the pubs, hotels and health-care group, yesterday pursued its takeover hid for JA Devenish by claim-ing the west country brewer had significantly overvalued

Mr Denis Cassidy, Bodding-ton's chairman, said in a letter to Devenish shareholders that the company's fully diluted net assets amounted to little more

than 200p per share.

A review of Devenish's pubestate by a firm of chartered. surveyors suggested that it was worth £20m less than the reported net book value of £147m, he said.

A book value of £19.5m for ery, which might have to be closed, was also questionable. Devenish said in its defence

exchange offer values Dever ish at 214p per share. There is a cash alternative of 210p.

Mr Cassidy, whose letter also attacked Devenish's "dismal profit record and prospects", yesterday questioned the credibility of any forecast for 1991 that the company might include in information it has

promised shareholders.
"Devenish's dependence on
the summer holiday trade
would make it not so much a
profit forecast as a weather

forecast" he added.

Mr Michael Cannon, chairman and chief executive of Devenish, said yesterday that Boddington's views were "totally legiting in merit" letter was "full of conjecture and supposition" and reflected Boddington's fear that it would

Boddington's 10-for-7 share WORY & SIME ATLAS FUND

MOTICE TO SHAREHOUT TO SHAREHOUT

To the Holders of

SHEARSON LEHMAN CMO, HIC.

Series F, Class F-1 Floating Rate Bonds Due February 20, 2018

Pursuant to the Indenture dated as of February 1, 1985 between Shearson Lehman CMO, Inc. as Issuer and Texas Commerce Bank as Trustee, notice is hereby given that the interest rate applicable to the above Bonds for the interest period May 20, 1991 through August 19, 1991 as determined in accordance with the applicable provisions of the Indenture, is 6.6875% per annum. Amount of interest payable is \$116.612306663 per \$10,000 principal amoun

FINANCIAL NEWS FROM BANK OF SCOTLAND



	1991	1990
OPERATING PROFIT BEFORE BAD DEBT PROVISIONS	£339.4m	£305.4m
PROFIT BEFORE TAXATION	£134.1m	£193.5m
TOTAL CAPITAL RESOURCES	£1,707m	£1,538m
TOTAL ASSETS	£22,095m	£18,394m
EARNINGS PER ORDINARY STOCK UNIT	9.5p	14.3p
DIVIDEND PER ORDINARY STOCK UNIT	5.1p	4.55p

- Operating Profit continuing to grow up 11 per cent on 1990.
- Profit before taxation down to £134.1 million as a result of increased bad debt provisions.
- Net ordinary dividend for the year increased by 12 per cent to 5.1 pence.
- Cost : income ratio a satisfactory 54.6 per cent.
- Current trends and improving margins give confidence for a Rights Issue to raise an additional £194 million of Tier 1 equity capital.



For a copy of the Bank's Annual Report contact the Public Affairs Department, Bank of Scotland, PO Box 725, Orchard Brae House, 30 Queensferry Road, Edinburgh EH4 2UH. Telephone 031 343 7070.

Associated British Foods

Second Interim Report

Following the change of date to which the financial accounts of the group are prepared, the Report and Accounts for 1991 will cover an eighteen month period to 14 September 1991.

	12 months to 30 March 1991*	12 months to 31 March 1990
	poilling 2	£ million
Turnover	3,125.1	<u>2,774.7</u>
Trading surplus Interest payable	188.9 23.4	159.3 7.0
Group profit	165.5	152.3
Investment income	151.9	131.5
Profit on ordinary activities before tax	317.4	283.8
United Kingdom tax Overseas tax	58.1 43.1	54.1 36.6
Profit on ordinary activities after tax Minority interests	216.2 5.8	193.1 5.5
Profit on ordinary activities attributable to the company	210.4	187.6
Extraordinary items	(100.9)	79.6
Profit for the financial year	109.5	267.2
Ordinary dividends 1st Interim 2nd Interim	16.6 38.1	14.7 34.6
Earnings per share before extraordinary items	46.9p	41.9p
*This year's figures unaudited.		

The Chairman, Mr. GARRY WESTON, reports:

In spite of the continued heavy pressure on food manufacturing margins during the period under review, I am pleased to report increased profits for the group up 12 per cent to £317.4 mil-lion. This figure has been achieved after currency realignments which had the effect of reducing the earnings of our overseas subsidiaries by some £3.5 million. After providing for taxation of £101.2 million and minority interests of £5.8 million, earnings per ordinary share also increased by 12 per cent.

Once again, the lower margins achieved by the UK manufacturing divisions have been more than compensated for by the continued earnings growth of our overseas divisions, from the excellent growth in contributions during the year from the group's cash balances, and by the first time inclusion of earnings from new subsidiaries, principally British Sugar. These earnings totalled £33.2 mil-lion, which exceeded the cost of financing the

As shareholders have already been informed, British Sugar plc, was acquired on 2 January 1991, with the acquisition being financed partly out of our own cash balances and partly by bank borrowings. The closure of the two sugar fac tories announced in February 1991 was planned prior to acquisition, and the costs thereof, including the write down of assets employed to net realisable value, have been treated as fair value adjustments to

the book value of the assets acquired at acquisition. Group sales to customers for the twelve months increased by 13 per cent to £3,125.1 million. This includes some £170 million attributable to British Sugar and a reduction of £58 million resulting from currency realignments.

Our UK manufacturing divisions increased sales by £264 million to £1,676 million, and the retail companies by £46 million to £364 million. Excluding British Sugar, these reflect increases of 7 per cent and 15 per cent respectively.

The profit achieved by our UK manufacturing division is £110.1 million. After excluding the contribution from British Sugar, this shows a decrease of £12.7 million compared with last year, but this is after the heavy costs of some £12 million (1990 - £6.9 million) associated with the closure of three major bakeries as well as restructuring and redundancy costs in our other manufacturing companies, which in accordance with the group's normal practice, have been charged above the line. As reported at the six month stage, the margins of our bakery operation continue to remain under pressure, affected by heavy competition and the lack of buoyancy in the bread markets, whilst the earnings reported by our milling division were below the record figures achieved the previous year. With the exception of our canning and ice cream

operations, all other manufacturing divisions show

results in line with or better than budgets.

Our retail companies in the North of Ireland and this country together increased earnings to £10.1 million with our grocery companies in Ulster achieving an excellent turn-round, continuing to further increase sales whilst improving operating margins after the heavy pressures of the previous

Our overseas companies produced good results with sales at £1,085 million and trading profits of £68.7 million showing increases of £40 million and £7.9 million and £7.0 million million and £7.9 million. After allowing for adverse currency movements, these are increases of 10 per cent and 19 per cent respectively. George Wes Foods in Australia increased sales and profits by 6

per cent and 15 per cent respectively.

Group investment income, net of interest payable, at £128.5 million is after financing the British Sugar acquisition and compares with earnings from this source of £124.5 million the previous year. As indicated at the 1990 Annual General Meeting, we have reviewed the value of our investment in Berisford International. Accordingly the value has been written down by £100.9 million and

has been dealt with as an extraordinary item.

Whilst Associated British Foods' performance to its new year end of 14 September 1991 will undoubtedly be adversely affected by continued pressure on manufacturing margins and the lower interest earnings on reduced cash balances, we believe that this will be more than compensated for by earnings from elsewhere in the Group and the contribution that will be made from a full six

months by British Sugar.

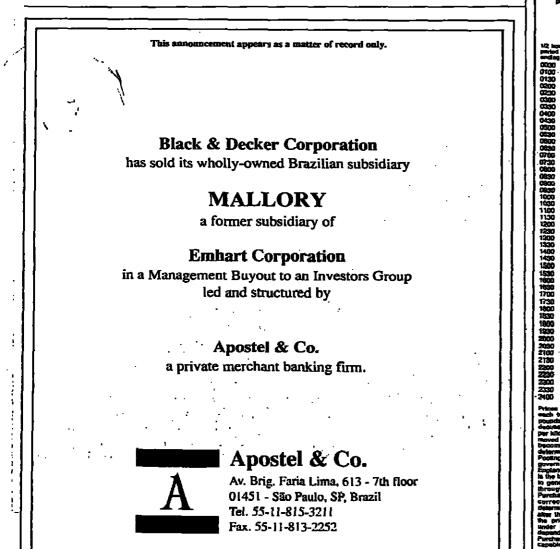
At a Board Meeting today, the directors declared a second interim dividend of 8.5p per share (1990 - 7.7p) which, together with the associated tax credit, is equivalent to 11.33p per share (1990 - 10.27p). This interim dividend will be paid on 2 September 1991 to shareholders registered at the close of business on 21 June 1991. A first interim dividend of 3.7p per share (1990 - 3.3p) was paid in March 1991 which, together with the associated tax credit, is equivalent to 4.93p per share (1990 - 4.4p). This increase in the second interim dividend is

in accordance with the statement made on 29 January

1991 announcing the change of our year end.

The Annual General Meeting for 1991 will be held at the Connaught Rooms on Friday 20 September 1991, to consider relevant business other than the adoption of the Report and Accounts for the eighteen months to 14 September 1991. An Extraordinary General Meeting to consider and adopt the Accounts will be held during January 1992.

Associated British Foods plc Weston Centre, 68 Knightsbridge, London SW1X 7LR



UK COMPANY NEWS

Takeover interest in a resilient offshoot

John Murray Brown ponders the future of Vestel, a thriving Polly Peck company

HE MOURNING period is over, says Mr Tabsin Karan, head of Vestel, the Turkish consumer electronics subsidiary of Polly Peck

International. As PPI's creditors meet on Friday in London to decide the fate of the UK fruit to electronics group. Mr Karan may well ponder on what might have been. Today, seven months after financial difficulties forced PPI's chairman, Mr Asil Nadir, to seek UK court appointed administrators, Ves-

tel is almost thriving.
To underline the point in February, Vestel reported a fourfold boost in pre-tax profits for 1990 to TL167bn (£36m). According to figures in the administrators' report the Vestel group made a trading profit of TL241bn (£52m) in 1990.

The company, reconfirming its reputation as one of PPT's more resilient subsidiaries. negotiated suppliers' credits with Goldstar, its South Korean joint venture partner. It has even won financial back-ing from some of the very same banks which refused new credits to PPI.

What was important for the creditors was that the adminis-trators explained they were behind the management," says Mr Karan.

Loath as they were to admit it, Vestel's success provides an object lesson for its rivals – how a foreign investor new to the field can shake up a well established industry and secure almost 20 per cent of the local market together with the largest share of

When Vestel started produc-tion in 1985 there were just two makers of consumer electronics in Turkey - Profilo, which has the Sony license, and Koc's Arcelik, which makes Hitachi and Toshiba.



Vestel's factory at Manisa where some 30 different brand names are produced

market, Vestel rejected the usual "licensed manufacture" route to industrialisation. Instead, after a two-year link with Thorn EMI, Vestel established its own brand name by buying components from the Far East and assembling in

"In our industry nothing is sacred," says Mr Karan. have no research and develop-ment. We buy integrated circuits. This is 60 per cent of the technology. The rest is just engineering skills."

Vestel is currently the second largest producer of colour televisions, with 14 per cent of the local market and 29 per cent of exports. It assembles both audio and video products, and has a complete range of white goods including refrigerators, washing machines and then prime minister, introducmicro wave ovens.

The factory at Manisa, near kmir, produces some 30 different brand names, made to the design and specification of a foreign purchaser — an arrangement known as original equipment manufacturing (ŌEM).

Buyers include many big international manufacturers such as IBM, Toshiba and Philips and UK retailers such as Dixons and Currys. In 1990 exports reached \$90m. accounting for 60 per cent of Vestel's

"When you look at the Far East it takes them a month a ship. We can deliver to the retailers in four or five days," says Mr Karan. The political climate was right, with Mr Turgut Ozal the

ing sweeping changes in the trade regime in an effort to force new efficiencies in Turk-

ish industry. Vestel was also ruthless in head hunting local expertise — which in part explains the leg-acy of mutual bitterness in the industry. Mr Karan was for-merly a general manager at On the financial side Vestel

was able to rely on letters of credit issued by PPI for much of its raw material supplies, an important advantage when you consider that domestic borrowing was costing 100

Furthermore, Vestel's 4,500 strong workforce is not unioned, another key factor at time of growing labour unrest in

Some doubts remain. On the Istanbul stock exchange, where Vestel listed 18 per cent of its stock last June, the shares currently languish at around TL7,800 compared with the issue price of TL18,250.

One reason for this is that many brokers anticipate that the administrators will try to sell many more Vestel shares as part of the restructuring of

the group.
Analysts also believe that Vestel may suffer substantial foreign exchange losses this year. Much of the company's imput costs are in foreign currencies while its sales earn Turkish lira. The situation could be exacerbated this year with the TL devaluing by more than 30 per cent against the dollar in the first four months

of 1991. Mr Nadir used his local newspapers to market Vestel's products as one way to absorb some of the promotion

Whatever questions hang over Vestel, there is no shortage of takeover interest despite Mr Karan's assertions that Vestel will remain part of the

PPI core group.

For local groups like Cukurova and Sabanci, Vestel would provide a ready made entry into electronic manufacturing. For competitors like Koc and Profilo, Vestel represents a chance to increase market

hare and buy brands. Koc, Turkey's leading trading house, is understood to have expressed an interest in Vestel's picture tube investment venture with Thompson CSF, the French electronic con-

Thompson has been mentioned as a possible buyer of Vestel. As one UK fund manager put it: "I think all the big conglomerates will be interted. It's such a cash cow."

NEWS DIGEST

investment was expected to contribute to profits within a

Frederic Velge, chairman.

Thorn in talks with **Japanese**

THORN EMI is discussing the possible sale of its light sens-ing and light amplification devices business to Hama-matsu Photonics of Japan. Thorn, - activities include

recorded music, rentals and lighting, said it was also talking to Hamamatsu about other forms of collabora-The business concerned.

Thorn EMI Electron Tubes

employs 220 people and turned in sales of about £7m in It is based in Rulslip, Middleunit in New Jersey. Its products are used for scientific and

Godfrey Davis sells Ford dealerships

medical purposes.

Godfrey Davis (Holdings), the textiles, car dealing and building services group, has condi-tionally agreed to sell three of its four Ford dealerships to Godfrey Davis (Trust), a new company owned by directors of

the dealerships.

The sale price of £6.69m includes an immediate dividend payment of £1.14m to Godfrey Davis, with the balance payable on completion.

Total proceeds of the sale

Pool mented in 11.042 14.45 14.55 1

will result in an extraordinary loss on disposal of about £1.3m, which will be included in Godfrey Davis's interim figures for the six months to end-June. Following the disposal, Godfrey Davis's interests in the motor distribution

The proceeds will be used to fund further expansion of the group, which is proposing to change its name to Davis Service Group at its forthcoming

Exchange rate losses put Tharsis into red

The Tharsis Company, a Glasgow-based group which is mainly involved in land development in Spain, incurred a deficit of £153,076 in 1990. The total dividend is more than

The outcome - achieved on turnover of just £370,420 (£2.29m) - compared with tax-able profits of £1.62m in the previous year and was struck after exchange rate losses amounting to £275,857 (profit of

The position was also affected by the group's share of losses at its Filon Sur gold mining associate which amounted to £383,065 reflecting a low metal price and the weak

Following a restructuring, its share of the company increased from about 27 per

High interest rates

with Jyske Bank

10

11 1/8

93/4

On USD 89,000 you will earn 0.50% extra interest

Banco Central De Costa Rica US \$86,611,115 Series A Interest Claims Bonds Due May 21, 2005

US \$76,435,529 Series B interest Claims Bonds Due May 21, 2005

NOTICE IS HEREBY GIVEN, that the re

14 currencies to choose from

non-residents in Denmark *Professional cost-effective

"No Danish taxes for

11

Currency

GBP. England

SEK, Sweden

sector will comprise a single Ford dealership at St Albans together with property assets still rented out to Trust. Losses deepen

at Youghal Losses deepened in 1990 at Youghal Carpets (Holdings) from 1£1.26m to 1£2.84m (£2.55m). There was an operating loss this time of 12255,000 compared with profits of 19802,000.

Interest charges at this

rose to I£2.18m (I£1.88m). In addition, exceptional items increased from I£184,000 to cent to 48.6 per cent. The 1£401,000, relating to reorganisation costs of its UK plants. few years according to Mr Turnover feil 17 per cent to 1£55.23m (£66.44m). Losses per share came out at 6.09p (2.85p).

The company's original core activity – the sale outside Spain of pyrites – was expected to cease in the current Rosehaugh holding Rarnings per share slumped from 44.99p to 3.23p and a proposed final dividend of 3p brings the total to 6p (12.5p).

rebuilt Funds managed by Robert

Fleming have rebuilt their stake in Rosehaugh, the prop-erty company headed by Mr Godfrey Bradman, to 13.18 per

cent.

Before Rosehaugh's rights issue in February 1990, Fleming-managed funds held about 12 per cent. The holding was reduced to 4 per cent in September, since when it has grad-

One of the funds is Uni-County Cork-based company lever's Superannuation Fund, a combined turnover of £24m.

which has notified Rosehaugh that it has a holding of 3.13 per

Rosehaugh's shares rose 2p to 59p yesterday, after baving fallen from 220p during the

Powell Duffryn £5m Dresser purchase

Hamworthy Engineering, the Dorset-based subsidiary of Powell Daffryn, has bought the combustion operation of Dresser Holmes from Dresser Industries of Dallas for 25m. Oresser Holmes' plants in Kent and the West Midlands will strengthen Hamworthy's existing combustion systems business and improve penetration of the expanding largescale incinerator and process

The two businesses will have

FIDELITY BALANCED PORTFOLIO

Société d'Investissement à Capital Variable 33. Boulevard Prince Henri L-1724 Luxembourg

NOTICE OF ANNUAL GENERAL MEETING

NOTICE is hereby given that the Annual General Meeting of the Shareholders of FIDELITY BALANCED PORTFOLIO, a société d'investissement à capital variable organised under the laws of the Grand Duchy of Luxembourg (the "Fund"), will be held at the registered office of the Fund, 33. Boulevard Prince Henri, Luxembourg, at 11 a.m. on May 30, 1991, specifically, but without limitation, for the following purposes:

1. Presentation of the Report of the Board of Directors.

2. Presentation of the Board of the Additor.

3. Approval of the balance sheet and income statement for the fiscal year ended January 31, 1991.

4. Discharge of the Board of Directors and the Auditor. Election of five (5) Directors, specifically the reelection of the following five (5) present Directors: Messrs. Edward C. Johnson 3d, Charles T. M. Collis, Charles A. Fraser, Jean Hamilius and H. F. van den Hoven.

6. Election of the Auditor, specifically the election of Coopers & Lybrand, Luxembourg.

7. Declaration of dividends on the Fund's Class A and Class B shares in respect of the fiscal year ended January 31, 1991, and authorisation of the Board of Directors to declare additional dividends in respect of fiscal year 1991 if necessary to enable the Fund to qualify for

'distributor" status under United Kingdom tax law. 8. Consideration of such other business as may properly come before the meeting.

Approval of the above Items of the agenda will require the affirmative vote of a majority of the shares present or represented at the meeting with no minimum number of shares present or represented in order for a quorum to be present. With respect to Item 6, each class will vote separately its approval of the dividend to be paid on shares of that class; the affirmative vote of a majority of the shares of that class present or represented at the meeting will be required in addition to the affirmative vote of a majority of the vote of the combined classes present or represented at the meeting to approve the dividend. Subject to the limitations imposed by the Articles of Incorporation of the Fund with regard to ownership of either or both Class A and class B shares which constitute in the aggregate more than three percent (3 %) of the outstanding shares of both classes, each share is entitled to one vote. A Shareholder may act at any meeting by proxy. Dated: April 24, 1991

BY ORDER OF THE BOARD OF DIRECTORS



Tenneco Inc HOUSTON, TEXAS

The 1991 second quarter dividend of 80¢ per share on the Common Stock will be paid June 11 to stockholders of record on May 28. About 129,000 stockholders will share in our earnings.

Karl A. Stewart, Secretary

is our 45th consecutive veer of cash

ffshoot

Despite the intense competition in 1990, and through a firm internal policy of 'good housekeeping', Mr Jon Foulds, Chairman of Halifax Building Society, was able to announce exceptional results for the year in his first

During 1990, the broad range of mortgage schemes was widened to encompass special offers for first time buyers, larger borrowers and those looking for a fixed rate mortgage, whilst prudent lending policies ensured that

annual statement.

• Pre-tax profits

up by 11% to £593 million.

"IN A FIERCELY COMPETITIVE WORLD, ONLY THE BEST WILL SURVIVE AND PROSPER."

borrowers were not allowed to over-commit themselves.

New saving schemes

- Cost/income ratio improved from 51.4% to 48.5%.
- Assets grow to £54,000 million.
- Gross lending of £9,600 million to 211,000 borrowers.
- Market share of lending sustained at 17%.
- · Savings and investment balances up by £5,600 million.

"It is," said Mr Foulds "my firm belief that the quality of Halifax assets, our capital strength, profitability and efficient management place us among the leading European financial institutions."

Everything about the Halifax is substantial, both its achievements and its ambitions.

Yet it is the constant principle of the organisation that all the success to date will only continue if customer needs are met with excellent products and an exceptionally good service. were added to the traditional portfolio of Instant Xtra and 90 Day Xtra. These included a one year bond – Capital Xtra and a high return investment–Time Deposits.

Following the 1990 Budget encouragement for savers, the Halifax introduced a TESSA scheme which has proved spectacularly successful with currently over 350,000 customers and almost £1,000 million invested.

The appeal of Maxim, the Society's current account, continued to grow, and now 350,000 customers have the additional benefit of the Switch facility.

Halifax Standard Life, a joint venture unit trust company, was formed to offer a range of personal equity plans and unit trusts, the first of which, Global Advantage, made an encouraging start despite the background of a rather depressed stock-market.

Good housekeeping, consolidating and preserving asset quality, enhancing service and controlling costs have not deflected the Society from its steady programme of introducing new products and services.

Fierce competition and the uncertain economic outlook is likely to place a premium on quality investment and mortgage products. By continuing to meet this need the Halifax will retain its position as the world's biggest building society.

HALIFAX

COMMODITIES AND AGRICULTURE

Food export loans might cost US Treasury \$6.7bn

THE US Treasury may have to pay as much as \$6.7bn (£3.9bn) for delinquencies on loans backed by the US Agriculture Department to boost food exports, a government report

The General Accounting Office, the investigative arm of Congress, said the cost of the government's export credit guarantee programme might soar because the USDA has been forced by law to hand out billions of dollars in guaran-tees to high risk countries like Iraq. The countries which received these guarantees are even less likely to meet their obligations than poorer coun-tries which get soft loans for

The GAO report has become a factor in the debate over the Soviet request for \$1.5bn in new guarantees. President Bush has said he wants to extend the guarantees but he is being restrained by creditworthiness requirements written into last year's farm bill.

The investigators noted that Moscow's credit rating by international banks has deteriorated rapidly in the past year, showing the second greatest one-year decline for a country in the past decade.

The report estimated that of the \$11.2bn in guarantees and

BRAZILIAN and Argentinian officials are to meet this week to discuss a compromise on Brazil's plan to import 700,000 tonnes of sub-sidised wheat from the United States, writes John Barham in Buenos Aires. Meetings were announced

after the economy ministers of both countries met in Rio de Janeiro at the weekend. The announcement that Brazil planned to import subsidised wheat fell like in bombshell in Buenos Aires, which considers Brazil a captive market. Argentinian

delinquent or rescheduled payments outstanding last May, the treasury might have to pay out 60 per cent or \$6.7hn. USDA officials admitted to

the GAO that they have had difficulty finding creditworthy countries for the programme. Congress has required the Commodity Credit Corporation, the USDA's bank to make available "not less than \$5nn" in short-term guarantees for each of the fiscal years 1991 to 1995 and not less than \$500m a year in intermediate loans in the same period. Another \$1bn is supposed to be made available for exports to emerging

officials were outraged that their principal trading partner and a founding member of the nascent Southern Cone Common Market would accept subsidised wheat.

rlier, Argentine officials said they accepted a US promise to start exporting only after Argentina had filled its 2m tonne quota. Officials have confirmed that the government is trying to use the threat of US wheat sales to press middlemen and grain exporters to mod-erate their prices and so avoid a surge in inflation.

The GAO was told that loan guarantees have often been the result of political considerations. Last year, however, Congress prohibited the use of the programme for foreign pol-

icy purposes.

The CCC has been experiencing difficulty in collecting its debts, according to the GAO. Its practice has been to suspend further guarantees until payments are made or rescheduled and to use diplomatic channels to encourage repay-

Of the \$2.7bn in rescheduled debt last May, \$1.4bn has come due, with \$900m of that delin-

Low cocoa prices sap Malaysian resolve to beat the podborer

By Lim Slong Hoon

FOR NEARLY a decade cocoa planters in Malaysia waged periodic, and successful, batmoth caterpillar nicknamed the "podborer". It is able to penetrate the hard fruit pods, feed on the pulp, and stunt the growth of beans.

Conopomorpha cramerella is making a comeback today because low cocoa prices in the world market have started to weaken the planters' resolve to

As a result podborers have infested more than 5,000 hectares in peninsular Malaysia, compared with 4,000 hectares efore May 1990.

The area may seem small, ust 3 per cent of the 148,000 hectares of cocoa farms in a peninsula which accounts for 35 per cent of the 247,000 tonnes in 1990 national production. The remainder comes mainly from the Borneo state

But the infestations, coupled with low returns, have touched off drastic measures. Plantations are beginning to destroy their cocoa trees while the gov-ernment turns a blind eye to a quarantine law intended to

deal with the pest. Plantations have destroyed up to 1,000 hectares of cocoa s in recent months. With yields of between 700 kg to 1,200 kg per hectare, they are

some of the country's best

The destruction also has to do with the quarantine law which requires planters to eradicate the pest through a number of prescribed mea-sures, such as burying the infected pods and employing intensive pesticide spraying. But such measures double the production cost at a time

when planters are least willing when planters are least witting to spend. Mr Oci Ling Hoak, an agronomist, said: "If they cannot conform to the law, they want to chop down the trees."

Among state-subsidised smallholdings, typically a quarter to one hectare, there has been a strong registence to has been a strong resistance to complying with the law, partly because their yields are even lower. The government's offer

to compensate them, at about M\$1,000 for each hectare of rejected.
The defiance opens the

smallhoiders to prosecution.

but according to planters this would be unlikely for political reasons. And without their

co-operation the infestation is certain to speed up.
Rising infestation is intensifying the debate between planters and the government about whether to change or nullify the law to switch the emphasis from eradicating the podborer simply to containing it.

Mr Ooi said: "For practical

reasons eradication looks impossible. Maybe we should learn to live with the pest." In Sabah, where the law is absent, the podborers spread through the state within two years so dealing with them has become "just another produc-tion cost item" said Mr Ooi... The Malaysian Cocoa Grow-

ers' Council argues for a threshold level - 10 per cent to 15 per cent is suggested for the infestation of every 1,000 pods - beyond which control measures be required. At that level the loss on bean extraction would be comthe existing high production costs incurred by law. That, an agricultural official said,

Close Previous High/Low

estates could tolerate.

A gold mine that takes the breath away

Kenneth Gooding visits the Choquelimpie project high in the Chilean Andes

oing to the Choquelim-pie gold mine in Chile takes your breath away - literally. It is the high-est commercial mine in the world, in the mouth of a dead volcano 4,825 metres (15,777 ft) up in the high Andes.
At this height air has only about half as much oxygen as

at sea level. Pressure in the lungs is reduced by half. Hearts have to beat faster and breathing is more rapid as the body tries to absorb enough

oxygen.
This poses special problems for an enterprise which is shifting 4.5m tonnes of rock a year to leach out the gold and sil-

This is a mine where a medi cal is compulsory for visitors, when blood pressure and pulse rates are checked. One person in three suffers altitude sick-ness which causes headaches, nausea and, sometimes, vomiting. But severe cases can be countered by bottled oxygen, which is kept on hand. High altitude mining, which

Choquelimpie is pioneering in Chile, has other complications. There are ferocious "tormentas electricas" – electrical storms which streak in from Bolivia, 20 km to the east, between January and March, fall into the volcano's mouth, spit lightning in all directions and bring a mixture of rain and sport

m all directions and pring a mixture of rain and snow which halts all operations.

At such times the air is filled with static electricity which makes the hair stand straight up on end. Lightning conductor masts and deflecting cables failed to prevent a miner being struck down by lightning and killed in March this year as he stood defiantly with hands in pockets on the edge of the

waste dumps.

Many of the 700 employees are recruited from fishing towns at sea level. Never before have they touched snow, let allow driven earthmoving equipment in it. Four people suffered eye problems from the effects of the glare of sunshine on snow before the management realised that the miners had to be taught to wear sunglasses to keep out the intense ultraviolet light. Sunglasses are now supplied to employees as part of their stan-

dard equipment.
Sociedad Contractual Minera Sociedad Contractual Minera Vilacollo, a partnership between Billiton, the Boyal Dutch/Shell offshoot (41.7 per cent), Northgate of Canada (35.3 per cent) and Citihank (23 per cent), which operates Choquelimpie, is helping to finance a study of the effects of high altitude on miners. It is also niecing together information piecing together information about protection from electrical storms which is frequently

proving to be contradictory.

All this will be of immense value as mining activity builds up in Chile, one of the world's most mineral-rich countries and one which is attracting a great deal of foreign invest-

WORLD COMMODITIES PRICES



democratic government.

Much of Chile's treasure is locked in the high Andes. Breathtaking current projects include Coldelco's Andina copper operation at 4,200 metres (13,734 ft); La Coipa gold project (Placer Dome and TVX

ect (Placer Dome and TVX Gold) at 4,100 metres (13,407 ft) and Cominco's Quebrada Blanca copper project at 4,280 metres (14,000 ft).

Two of the Choquelimpie partners, Billiton and Citibank, have a potentially important copper project, Collahuasi, not far from Choquelimpie, at 4,400 metres (14,388 ft). Mr Rodney Lay, managing director of Billiton Chile, said there was no way of knowing if individual geologists needed for the current \$10m exploration programme at Collahuasi would be able to work at that altitude

be able to work at that altitude except by taking each one there to see what happened. "There seems to be no pattern. Extremely fit and active people have been known to suf-fer badly while some over-weight, heavy-smoking types feel no effects," he said. At Choquelimpie it takes about two weeks for the first effects of high altitude working to wear off as the body builds up more red corpuscles in the blood. After about two months

something like full adjustment takes place although muscular strength is reduced. Recent tests have shown that problemsolving ability and creativity is permanently weakened. Because humidity is substan

tially reduced at great heights, employees suffer from dehydration unless they drink a great deal more than usual. But the bad news is that alcohol taken at extreme height has little of the usual relaxing impact.

advised against heavy drinking or taking tran-quillisers to help overcome the sleeplessness which is another perennial problem at great alti-

Shallow breathing when sleeping often does not allow the lungs to collect enough oxygen and the sleeper wakes to breathe more deeply. Artificial aids to sleep might cause gradual suffocation.

The Vilacollo partners decidal to make the comments of the com

decided it would be more com-fortable for employees if Choquelimpie's mining camp was a little lower, at Putre, a small town at 3,500 metres (11,445 feet) with employees bussed in the for three shift, round-the-clock working.

and red, covered with detritus spewed from long-dead volca-noes. The mine is in a vicuna reserve and these animals, along with llamas and guana-cos, roam freely just outside the fence put up to keep them from harm. The scene is dominated by two brooding, snow-capped volcances, Parinacota and Pomerape.

According to Mr Orlando Oliveros, the general manager, Vilacollo offers the best pay in the region. Even so, annual employee turnover is a startling 70 per cent. Even after the two-month adjustment period some suffer depression and feel they cannot stay on.
In spite of this employee turnover Choquelimple shifted
4.5m tonnes of material (2.163m tonnes of ore and the rest

waste) last year, twice the rated capacity of its plant. It produced 100,390 troy ounces of gold — to rank as Chile's third-largest gold mine — and 640,000 cunces of silver. Profit after tay from this process. after tax from this precious metal was US\$11.8m.

Mr Patricio Palma, Choque limpie's safety officer, says that altitude has a greater involve 22 to 24-year-olds. Most They travel through spectacular mountains of brown, sepia and four o'clock when lunch is

being digested, leaving less oxygen for the brain and causing a drop in concentration. Next month the University of Santiago's cardiology depart-ment will start a study of Cho-quelimpie's employees, financed by Vilacollo and Shell

All personnel at the mine will be checked 1,100 metres lower at Potre, and in Arica, a sea level town, in an attempt to identify any with heart problems or others potentially at

Mr Palma said: "We want to know more about how hearts and lungs function at high altiand hings function at mgn autitudes to prevent problems developing, possibly with the help of drugs." He said changes to the mine's working patterns might be called for.

The initial four-week study will be followed by annual follow-up tests to see whether there are any long-term effects.

there are any long-term effects.

Mr Jan Akkerman, Choquelimple's chief geologist, is not
deterred by what the research
might produce, and is arranging a joint scientific-exploration venture up the slopes of the nearby volcanoes which soar to 6,330 metres (20,699 ft), where there is even less oxy-gen but where he reckous more mineral riches are waiting to

MARKET REPORT

Nickel prices closed at the day's lows on the LME yesterday on general liquidation, although sporadic consumer interest prevented substantial losses dealers said. Three-month nickel is testing support around \$8,300 a tonne and a breach of that would put prices on course towards is likely to be cautious about extending declines as labour talks at Canadian producer inco near a crucial stage, dealers added. The current labour contract there expires at the end of May. Copper prices closed ahead, but off the day's highs. Dealers said copper mostly consolidated in routine trading, holding comfortably above

London Markets

SPOT MARKETS		
Crude oil (per barrel FOB)		+ or -
Dubsi Brent Blend (dated) Brent Blend (Jul)	\$16.10-6.20u \$18.80-8.95 \$19.55-9.60	025 +0.15
W.Y.I. (1 pm est) Oil products	\$21.15-1,250	+0.05
(NWE prompt delivery per to	onne CIF)	+ ar -
Premium Gasoline Gas Oil Heavy Fuel Oil	\$250-252 \$186-187 \$69-71	
Naphtha Petroleum Argus Estimates	\$213-215	+\$
Other		+ or -
Gold (per troy oz) Silver (per troy oz) Platinum (per troy oz)	\$355.35 402.5c \$388.25	+0.05 -2.50
Pelledium (per troy oz)	\$24.10	-0.05
Aluminium (free market) Copper (US Producer)	\$1295 104c	-10
Lead (US Producer) Nickel (free merkel) Tin (Kuala Lumpur market)	340 388c 15.49r	+5
Tin (New York) Zinc (US Prime Western)	267c 62c	-1
Cattle (live weight)† Sheep (dead weight)†	112.91p 188.94o	+0.10*
Pigs (live weight)†	95.51p	-17.16 -0.74°
London dally sugar (rew)	\$197,8a	-0.70
London dally sugar (white) Tate and Lyle export price	£223.5	-3.00 +2.5
Barley (English feed) Matze (US No. 3 yellow) Wheat (US Dark Northern)	E108v E179.5 E100	
Rubber (Jun)♥	53,50p	-0.25
Rubber (Jul)♥ Rubber (KL RSS No 1 Jun)		-0.25 + 1.0
Coconut oil (Philippines)§ Paim Oil (Meleysian)§ Copra (Philippines)§	Unq Unq Unq	
Copra (Fillippings)s Soyabeans (US) Cotton "A" Index	2159 84.75;	+1
Woollops (64s Super)	384p	-3

-	_				Close	Previou	m High/Lo	/=	_
			hrugging off	May	598	590	599 5 94		
		e Polish		Jul Sep	613 640	609 638	616 606 644 633		
			ded. LME	Dec	67B	678	679 670	i	
			ires are	Mar	707	707	710 702	!	
		nos esir		May Jul	730 752	730 750	733 726 753 750		
			nium prices influence of				of 10 tonn	_	_
			trength,				DRs per to		Del
			iday in many	price to	or May 17	778.62 (7	79.57) 10 d		
			ampened			794.80			
			ouying interest	COFFE	Z - Lon	don POX		£	Ton
devel	oping. I	London	cocoa edged		Close	Previou	a High/Lo	-	
			ie traders	May	539	531	538 536		
			ns because	Jul Sep	585 587	558 582	585 580 589 584		
			on, in New	Nov	806	602	808 604		
			it new lifetime		625 639	821 638	626 626 642 638		
			/ on continued rs of delayed						_
pjanti		aria ida	19 OI GOISYOU	Turnov	817:1435 (4 Nostor o	1689) 1936 (1689 (LIB	of 5 tonnes cents per	i COUR	d 6
		from Re	uters	May 17	7 : Com	p. delily (88.41 (88.2	s). 14	5 de
-	iiipiiou .	. 4	-10.0	gyarage PATTAT	e 66.19 (6	il. 18) Jondon Pi	~~	•	чони
SUGAL	l - Lond	on POX	(\$ per tonne		Close	Previou		-	_
Rew	Close	Previous	High/Low	Mar - Apr	133.5 135.2	134.0 136.0	134.0 136.0 13	4.6	
Aug	171,40	170.00	172.00 167.80						_
Oct Mar	170.80 172.20	169,00 171,00	171.60 167.60 172.00 169.00				40 tonnes.	_	_
Aug	180.80		175.00	BUTAL		London P		_	Joni
White	Close	Previous	High/Low	·	Close	Previou		w	_
Aug	279.0	277.0	280.0 275.0	~ Jun	132.50	460 Eh	132.50		
Qct	248.5	247.5	249.7 245.5	Aug Oct	130.00 134.00	127.50 134.00	134.00		
Dec Mar	244.5 247.0	244.0	242.5 241.6 245.8 242.5	Feb	142.00	141.00	142.00		
				Turnovi	pr 70 (115) lots of 2	20 tonnes.	_	
	961 (769)	70 (214) W	ts of 60 tonnes.	FHEDQ	17 – Los	udon FOX	\$10/	índex	poi
	E OIL - E		\$/berry	;	Close	Previous	s High/Lo	w	_
CHUD	LUNE - P	_	3/00/1						_
				- Mev	1691	1683	1692 16	89	
	1_ete			May Jun	1691 1505	1683 1685	1692 16 1599 15	50	
Jul	19.57	19.58	19.70 19.55	_ Jun Jul	1595 1489	1685 1447	1500 15 1400 14	50 55	
Jul Aug Sep		19.58 19.72 19.98	19.70 19.55 19.88 19.75 20.02 19.89	_ Jul Jul Oct Jan	1595 1459 1590 1590	1685 1447 1558 1555	1500 15	50 55 70	
Aug Sep Oct	19.57 19.80 20.00 20.00	19.58 19.72 19.98 20.05	19.70 19.55 19.88 19.75	Jun Jul Oct Jen BA	1565 1459 1590 1590 1669	1685 1447 1558 1555 1680	1590 151 1490 141 1590 15	50 55 70	
Aug Sep Oct IPE Ind	19.57 19.80 20.00 20.00 6x 19.40	19.58 19.72 19.98 5 20.05 19.07	19.70 19.55 19.88 19.75 20.02 19.89	Jun Jul Oct Jen BA	1595 1459 1590 1590	1685 1447 1558 1555 1680	1590 151 1490 141 1590 15	50 55 70	
Aug Sep Oct IPE Ind	19.57 19.80 20.00 20.00	19.58 19.72 19.98 5 20.05 19.07	19.70 19.55 19.88 19.75 20.02 19.89	Jun Jul Oct Jen BR	1565 1459 1590 1590 1669	1685 1447 1558 1555 1680	1590 151 1490 141 1590 15	56 55 70 75	lona
Aug Sep Oct IPE Ind	19.57 19.80 20.00 20.00 6x 19.40	19.58 19.72 19.98 5 20.05 19.07	19.70 19.55 19.88 19.75 20.02 19.89	Jun Jul Oct Jen BR	1585 1459 1580 1580 1669 or 263 (44	1685 1447 1558 1555 1680	1599 160 1490 144 1590 15 1585 15	56 70 75	lona
Aug Sep Oct IPE Ind	19.57 19.80 20.00 20.00 6x 19.40 or 6150 (7	19.58 19.72 19.98 5 20.05 19.07	19.70 19.55 19.88 19.75 20.02 19.89	Jul Oct Jun BRI Turnove GRAME	1585 1459 1580 1580 1669 er 263 (44	1685 1447 1568 1565 1680 18)	1599 160 1490 144 1590 15 1585 15	56 70 75	Tona
Aug Sep Oct IPE Ind	19.57 19.80 20.00 20.00 20.00 ex 19.40 or 6150 (1	7 19.58 0 19.72 0 19.98 5 20.05 0 19.07	19.70 19.55 19.85 19.75 20.02 19.89 20.05 19.95	Juni Juli Oct Jun BRI Turnow GRANG Whent May Jun	1505 1489 1590 1590 1669 or 263 (44 8 - Lease Close 138.90 137.50	1885 1447 1558 1555 1680 8) fom POX Previous 136.50 137.25	1590 16 1490 14 1590 15 1585 15 #//gh/Lo	50 55 70 75	
Aug Sep Oct IPE Ind Turnow	19.57 19.80 20.00 20.00 20.00 ex 19.40 er 6150 (1	7 19.58 19.72 1 19.98 20.05 19.07 3\$25)	19.70 19.55 19.85 19.75 20.02 19.89 20.05 19.95 \$floran	Juni Juli Oct Jun Bili Tumow GRANG Wheel May Jun Sop	1585 1489 1590 1590 1590 1669 er 263 (44 8 - Lenn Close 138.90 137.50 111.45	1885 1447 1558 1555 1680 8) fem POX Previous 136.50 137.25 111.25	1599 161 1490 144 1590 15 1585 15	50 55 70 75	
Aug Sep Oct IPE Ind Turnow	19.57 19.50 20.00 20.00 19.40 or 6150 (19.40 10. — 1978 Laborat	7 19.58 7 19.72 9 19.98 5 20.05 19.07 3525) Previous	19.70 19.55 19.85 19.75 20.02 19.89 20.05 19.95 \$floor High/Low 180.00 178.50	Juni Juli Oct Jun BRI Tulmove GRAne Wheat May Jun Sep Nov	1585 1489 1590 1590 1590 1669 er 263 (44 8 - Lease Ciose 136.90 137.60 111.45 114.40	1885 1447 1558 1555 1680 8) free POX Previous 136.50 137.25 111.25 114.25	1599 161 1490 144 1590 151 1585 151 1585 151 1585 151 1585 151	50 55 70 75	
Aug Sep Oct IPE Ind Turnow	19.57 19.80 20.00 20.00 20.00 ex 19.40 er 6150 (1	7 19.58 19.72 1 19.98 20.05 19.07 3\$25)	19.70 19.55 19.85 19.75 20.02 19.99 20.05 19.95 \$floran High/Low 180.00 178.50 177.50 174.50 177.50 176.50	Juni Juli Oct Jan BRI Tumove GRAve Whent May Juni Sep Nov Jan	1505 1459 1590 1590 1659 er 263 (44 8 - Lease Cicese 136.90 137.50 111.45 114.40 117.70	1885 1447 1558 1555 1680 8) fom POX Previous 136.50 137.25 111.25 117.70	1599 161 1490 141 1590 151 1595 151 1595 151 138.00 1 111,40	50 55 70 75 27 57 57 50	
Aug Sep Oct IPE Ind Turnove 2AS Of Jun Jun Jul Aug Sep	19.57 19.80 20.00 20.00 ex 19.40 or 6150 (1 Latest 179.00 174.50 177.00 178.50	7 19.58 19.72 19.98 5 20.05 19.07 3\$25) Previous 179.00 173.25 177.25	19.70 19.55 19.86 19.75 20.02 19.89 20.05 19.95 \$70mm High/Low 180.00 176.50 175.50 174.50 179.00 178.50 179.50 178.50	Juni Juni Oct Juni Bril Tumove GRAnce Whent Bril Juni Sep Nov Jan Berley	1525 1459 1590 1590 1699 87 263 (44 8 - Least Cices 136.90 137.50 111.45 114.40 117.70	1885 1447 1558 1555 1880 8) fom POX Previous 136.50 137.25 111.25 114.25 117.70	1599 161 1490 141 1590 151 1595 151 1595 151 138.00 1 111,40	50 55 70 75 27 57 57 50	
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Aug Sep Cor IPE Ind Turnow Juni Juni Aug Sep Oct Dec Juni	19.57 19.00 20.00 20.00 20.00 19.40 or 6150 (1: 179.00 174.50 177.50 182.25 184.00 180.75	7 19.58 19.28 19.28 20.08 19.07 3525) Previous 179.00 173.25 177.25 177.26 182.00 183.75 184.50 184.50	19.70 18.55 19.86 19.75 20.02 19.89 20.05 19.95 20.05 19.95 \$\$\text{Norm}\$\$ 180.00 176.50 175.50 174.50 177.00 178.50 178.00 178.50 182.25 181.00 184.00 182.50	Juni Juni Oct Juni Bril Turmove Wheat May Juni Sep Nov Jan Berley May Sep Nov	1895 1489 1590 1590 1699 1699 1699 17 263 (44 8 - Least Close 134,90 137,80 111,46 117,70 Close 121,50 107,90 111,50 111,50 111,50	1885 1447 1558 1555 1680 18) Som Prox. Previous 136.50 111.25 117.70 Previous 121.90 107.85 111.40	1590 16 1490 14 1590 15 1595 15 1595 15 1595 15 139,00 1 117,70 117,70 111,50	27.50	
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Aug Sep Cor IPE Ind Turnow Juni Juni Aug Sep Oct Dec Juni	19.57 19.00 20.00 20.00 20.00 19.40 or 6150 (1: 179.00 174.50 177.50 182.25 184.00 180.75	7 19.58 19.28 19.28 20.08 19.07 3525) Previous 179.00 173.25 177.25 177.26 182.00 183.75 184.50 184.50	19.70 18.55 19.86 19.75 20.02 19.89 20.05 19.95 20.05 19.95 \$70mm High/Low 180.00 178.50 175.50 174.50 177.00 178.50 177.00 178.50 182.25 181.00 184.00 182.50 185.00 183.00 180.75 180.50	Juni Juni Oct Juni Bril Turmove GRAINE Whent May Juni Sep Nov Jen Berley May Sep Nov Turmove Turmove	1885 1489 1590 1590 1699 1699 1699 1699 135,90 137,90 111,46 117,70 Gloss 121,50 107,90 111,50 Rr. Wheek ir lots of	1885 1447 1558 1558 1555 1880 189 46m POOK Previous 136.50 137.25 111.25 117.70 Previous 121.00 107.85 111.40 23 (261), 100 toque	1590 16 1490 14 1590 15 1595 15 1595 15 1595 15 139,00 1 111,40 117,70 111,50 Barley 10 8.	55 55 77 57 57 57 57 57 57 57 57	
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Aug Sep Oct Man Aug Sep Oct Man Aug Sep Oct Turnove Tu	19.57 19.80 20.05 20.05 20.05 20.05 19.40 ar 6180 (1: 179.00 177.50 177.50 178.25 184.00 180.75 ar 2594 (8:	7 19.58 19.72 19.96 20.05 19.07 19.07 179.00 173.25 177.75 177.75 177.50 182.00 183.75 184.50 184.50	19.70 19.55 19.85 19.75 20.02 19.89 20.05 19.95 **Tonn High/Low 180.00 178.50 175.50 174.50 175.00 176.50 179.00 176.50 182.25 161.00 184.00 182.30 185.00 183.00 180.76 180.50	Juni Juni Oct Juni Bril Turmove GRAINE Whent May Juni Sep Nov Jen Berley May Sep Nov Turmove Turmove	1885 1489 1590 1590 1699 1699 1699 1699 135,90 137,90 111,46 117,70 Gloss 121,50 107,90 111,50 Rr. Wheek ir lots of	1885 1447 1558 1558 1555 1880 189 46m POOK Previous 136.50 137.25 111.25 117.70 Previous 121.00 107.85 111.40 23 (261), 100 toque	1590 16 1490 14 1590 15 1595 15 1595 15 1595 15 139,00 1 111,40 117,70 111,50 Barley 10 8.	55 55 77 57 57 57 57 57 57 57 57	
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Sep Oct Ind Turnow GAS Of Turnow Jun Jul Jul Jun Turnow TEA There the bir deader	19.57 19.80 29.00 20.00 20.00 20.00 20.00 19.40 19.40 179.00 177.00 177.00 177.50 182.25 184.00 185.00 180.75 184.00 180.75 180.	7 19.58 19.52 19.58 20.05 19.07 3325) Pravious 179.00 177.25 177.75 179.50 183.75 184.50 183.75 184.50 183.75 184.50 183.75 184.50 183.75 184.50 183.75 184.50	19.70 18.55 19.85 19.75 20.02 19.89 20.05 19.95 \$floors High/Low 180.00 178.50 178.50 174.50 177.00 178.50 177.00 178.50 182.25 181.00 184.00 182.50 185.00 183.00 180.75 180.50 100 tonnes	Juni Oct Juni Oct Juni Bill Turnove Wheat May Jun Sep Nov Jan Berfey May Sep Nov Turnove Turnove PIGS -	1995 1499 1990 1990 1990 1999 Hr 263 (44 8 - Least 198,90 137,90 111,45 114,40 117,70 Close 121,50 107,90 111,50 Hr Wheel Fr lots of London Close	1885 1447 1558 1558 1555 1680 8) 46m POOK Previous 136.50 137.25 111.25 117.70 Previous 121.00 107.85 111.40 23 (261), 100 toque POOK (Previous	1599 16 1490 18 1590 15 1595 15 1595 15 138,00 1 117,70 111,50 Barley 10 4. Cash Settle 120,5 112,0	55 55 77 57 57 57 57 57 57 57 57	
Sep Oct Ind Turnove Sep Oct Nov Dec Turnove Turnove Turnove Turnove Turnove Turnove Turnove Turnove Turnove Sep Oct Nov Dec Turnove Turnove Sep Oct Nov Dec Turnove Sep Oct No	19.57 19.80 20.00 20.00 20.00 20.00 20.00 19.40 es \$15.00 174.50 177.00 177.00 178.55 184.00 185.00 180.75 er \$2594 (8) was an infiginest liquinatines, repatition. Meanatimes	7 19.58 7 19.29 7 19.26 7 19.26 7 19.27 7 19.27 7 19.07 7 2525 7 7 19.00 7 182.00 7 184.00 7 184.00 7 184.00 7 184.00 7 184.00 7 184.00 7 184.00 7 184.00 7 184.00 7 184.00 7 184.00 7 184.00 7 184.00 7 184.00 7 184.00	19.70 19.55 19.85 19.75 20.02 19.89 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.50 175.50 176.50 182.25 185.00 182.50 182.50 182.50 183.00 180.75 180.50 20.05 190.50	Juni Juni GRANS GRANS Whent May Jun Sep Nov Jan Berley May Sep Nov Jun Burley Lumove Turnove PiGS	1885 1489 1590 1590 1590 1699 1699 1699 1699 133,90 137,90 111,46 117,70 Gloss 121,50 107,90 111,50 Fr. Wheek ir lots of Loadon Closs 120,3 116,8 112,8 103,0	1685 1447 1558 1558 1555 1680 18) 160m POOK Previous 130.50 157.25 111.25 117.70 Previous 121.90 107.85 111.40 120.00 107.85 111.40 100 toque POOK (Previous	1590 16 1490 141 1590 15 1595 15 1595 15 1595 15 1595 15 1595 15 1595 15 117.40 117.70 111.50 Barley 10 12.51 117.40 112.51 117.40 112.51 117.40 112.51 117.40	55 55 77 57 57 57 57 57 57 57 57	
Sep Oct Ind Turnove GAS Of Turnove THEA There the bir easier Associand so African African Turnove The bir easier Associand so African Turnove The bir easier Associant September 1988 (1988) and 1	19.57 19.80 19.80 20.00 20.00 20.00 20.00 20.00 19.40 19.40 179.00 174.50 174.50 174.50 182.25 184.00 185.00 180.75 was an irrightest flouristics, register,	19.58 19.72 19.85 20.05 19.07 3525) Pravious 179.00 177.75 179.50 182.00 183.75 184.50 181.00	19.70 18.55 19.85 19.75 20.02 19.89 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.07 176.50 177.00 176.50 182.25 181.00 182.25 181.00 182.25 181.00 182.50 183.00 180.76 180.50 100 tonnes mand eithough generally acid et se Brotecra's a well supported o to well supported o to mell supported o and prices were	Juni Juni Oct Jan Bril Turnove May Jun Sep Nov Jan Burley Nov Turnove PIGS -	1885 1489 1590 1590 1590 1699 1699 1699 1699 133,90 137,90 111,46 117,70 Gloss 121,50 107,90 111,50 Fr. Wheek ir lots of Loadon Closs 120,3 116,8 112,8 103,0	1885 1447 1558 1558 1555 1680 18) 46m POIX Previous 136.50 137.25 111.25 117.70 Previous 121.00 107.85 111.40 23 (261), 100 toque POIX (Previous 120.3 104.4	1590 16 1490 141 1590 15 1595 15 1595 15 1595 15 1595 15 1595 15 1595 15 117.40 117.70 111.50 Barley 10 12.51 117.40 112.51 117.40 112.51 117.40 112.51 117.40	55 55 77 57 57 57 57 57 57 57 57	
Sep Oct Ind Turnow Lun Aug Sep Oct Nov Dec Jan There bries and so African barely bare	19.57 19.80 20.00 20.00 20.00 20.00 20.00 20.00 20.00 19.47 ar 6180 (17 179.00 174.50 177.00 177.50 177.50 182.25 184.00 185.00 185.05 186.07 186.07 186.08	7 19.58 19.72 19.56 20.05 19.07 20.05 19.07 173.25 177.25 177.25 177.75 179.20 183.75 184.50 184.50 184.50 184.50 184.50 184.50 184.50 184.50 184.50 184.50 184.50 184.50 184.50	19.70 19.55 19.85 19.75 20.02 19.89 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 178.50 174.50 177.00 178.50 177.00 178.50 178.50 174.50 178.50 182.25 181.00 180.25 181.00 180.25 181.00 180.25 181.00 180.75 180.50 100 tonnes mand elthough generally sold et se Birotera' and prices were long on offer met	Juni Juni Oct Jan Bril Turnove May Jun Sep Nov Jan Burley Nov Turnove PIGS -	1985 1489 1590 1590 1590 1590 1699 1699 1699 1699 136,90 137,50 111,40 117,70 Close 121,50 107,90 111,50 IT Wheek I loadon Close 120,5 116,8 112,8 103,0 IT32,9 IT32,8 IT32,8 IT32,9 IT3	1885 1447 1458 1558 1555 1680 1872 1872 1872 1972 1972 1972 1972 1972 1973 1973 1973 1973 1973 1973 1973 1973	1590 16 1490 14 1590 15 1590 15 1595 15 1595 15 1595 15 1595 15 1595 15 1595 15 1595 15 1595 15 1595 15 1595 15 1595 15 1595 1595	(12).	p/k
Sep Oct Ind Turnows Jun Jul Aug Sep Oct Nov Dec Turnows Turnows Turnows Turnows Adjust A	19.57 19.80 20.00 20.00 20.00 20.00 20.00 19.40 es 19.40 179.00 177.00 177.00 177.00 177.00 178.25 184.00 185.00 180.75 er 2594 (8) was an integrated from the competition on base were stready. Till Competition on base were stready. Till Competition on the competition of the comp	7 19.58 7 19.29 7 19.26 7 19.26 7 19.27 7 19.27 7 19.07 7 2525 7 7 20 7 7 7 20 7 7 7 20 7 7 7 20 7 7 7 20 7 7 7 20 7 7 7 20 7 20	19.70 19.55 19.85 19.75 20.02 19.89 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 178.50 174.50 177.00 178.50 177.00 178.50 178.50 174.50 178.50 182.25 181.00 180.25 181.00 180.25 181.00 180.25 181.00 180.75 180.50 100 tonnes mand elthough generally sold et se Birotera' and prices were long on offer met	Juni Juni GRANG GRANG GRANG Whent May Jun Sep Nov Jan Burley May Sep Nov Turnove PIGS Jun Jul Oct Jan Turnove	1995 1459 1580 1580 1580 1580 1689 1689 1689 1689 1689 137.80 137.80 111.40 117.70 121.50 107.90 111.50 111.81 118.8 118	1885 1447 1458 1558 1558 1558 1558 1558 1558 1680 8) 46m POIX Previous 136.50 137.25 111.25 117.70 Previous 121.00 107.85 111.40 23 (261), 100 toque FOIX (i) Previous 120.3 104.4 104.4 Prev.	1590 16 1490 141 1590 15 1595 15 1595 15 1595 15 1595 15 1595 15 1595 15 117.40 117.70 111.50 Barley 10 12.51 117.40 112.51 117.40 112.51 117.40 112.51 117.40	55 55 77 57 57 57 57 57 57 57 57	p/k
Aug Sep Oct Ind Turnow Lun Jul Aug Sep Oct Nov Dec Jan There the briese barely strong dearer Cuotat	19.57 19.80 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 19.40 er 6150 (1 179.00 174.50 177.00 177.50 187.25 184.00 185.25 184.00 185.25 184.00 185.00 18	7 19.58 7 19.72 1 19.56 7 19.65 7 19.07 1 19.07 1 19.07 1 19.07 1 19.07 1 19.07 1 19.07 1 19.07 1 19.00 1 19.07 1 19.00 1 19.07 1 19.00 1 19.0	19.70 19.55 19.85 19.75 20.02 19.89 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.05 19.95 20.07 178.50 178.50 178.50 178.50 178.50 182.25 185.00 182.50 182.50 183.00 180.75 180.50 20.05 190.50 20.05	Juni Juni Oct Jan BFI Turmove Wheel	1985 1489 1580 1580 1580 1580 1689 If 263 (44 8 - Lease 138.90 137.80 111.45 114.40 117.70 Close 121.50 107.90 111.50 Irr Wheel 120.3 116.8 1120.3 Irr Solida (17) - London Close 139.74	1885 1447 1558 1558 1558 1558 1558 1558 1680 Previous 136.50 137.25 111.25 117.	1590 16 1490 14 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 1590 1590 1590 1590 1590 1590 1590	(12).) p.K
Aug Sep Oct Ind Turnow Lun Jul Aug Sep Oct Nov Dec Jan There the briese barely strong dearer Cuotat	19.57 19.60 19.60 20.00 20.00 20.00 20.00 20.00 20.00 19.40 19.40 179.00 174.00	7 19.58 7 19.72 1 19.56 7 19.75 7 19.75 7 19.75 7 19.77 7 19.77 7 19.77 7 179.70 7 179.70 7 182.77 7 184.50 7 1	19.70 18.55 19.85 19.75 20.02 19.89 20.05 19.95 20.05	Juni Juni Oct Jan BFI Turmove GRAINE Whent May Juni Sep Nov Jen Berley May Sep Nov Turnove Turnove Juni Juli Oct Jan Turnove Mag Juli Juli Juli Juli Juli Juli Juli Juli	1995 1459 1580 1580 1580 1580 1689 1689 1689 1689 1689 137.80 137.80 111.40 117.70 121.50 107.90 111.50 111.81 118.8 118	1885 1447 1558 1558 1558 1558 1558 1558 1680 Previous 130.50 171.25 111.25 117.	1590 16 1490 141 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 15 1590 1590 1590 1590 1590 1590 1590 1590	(12).	Vc 64
Aug Sep Oct Ind Turnow Lun Jul Aug Sep Oct Nov Dec Jan There the briese barely strong dearer Cuotat	19.57 19.80 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 19.40 er 6150 (1 179.00 174.50 177.00 177.50 187.25 184.00 185.25 184.00 185.25 184.00 185.00 18	7 19.58 7 19.72 1 19.56 7 19.75 7 19.75 7 19.75 7 19.77 7 19.77 7 19.77 7 179.70 7 179.70 7 182.77 7 184.50 7 1	19.70 18.55 19.85 19.75 20.02 19.89 20.05 19.95 20.05	Juni Oct Jan BFI Turnove May Jun BRIAN Sep Nov Jan Burley Nov Jan Burley Sep Nov Turnove PIGS - Jan Turnove Algan Jul Oct Jan Turnove Algan Jul Sep Sep Nov Sep Nov Turnove PIGS - Jan Turnove Algan Jul Sep Sep Nov Sep Nov Turnove PIGS - Jan Turnove Algan Jul Sep Sep Sep Nov Sep Nov Turnove PIGS - Jan Turnove Algan Jul Sep Sep Nov Sep	1985 1489 1580 1580 1580 1580 1689 1689 1689 1688 1688 111.45 111.45 111.45 111.50	1885 1447 1558 1558 1558 1558 1558 1558 1558 155	1590 16 1490 14 1590 15 1595 15 1595 15 1595 15 138,00 1 111,00 111,00 111,50 Barley 10 16 117,0 1120,5 117,0 1120,5 117,0 1120,5 117,0 1140,80 140,80 140,80 141,20 141,20	(12).	Ve 64
Aug Sep Oct Ind Turnow Lun Jul Aug Sep Oct Nov Dec Jan There the briese barely strong dearer Cuotat	19.57 19.80 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 19.40 er 6150 (1 179.00 174.50 177.00 177.50 187.25 184.00 185.25 184.00 185.25 184.00 185.00 18	7 19.58 7 19.72 1 19.56 7 19.75 7 19.75 7 19.75 7 19.77 7 19.77 7 19.77 7 179.70 7 179.70 7 182.77 7 184.50 7 1	19.70 18.55 19.85 19.75 20.02 19.89 20.05 19.95 20.05	Juni Juni Oct Juni Bill Turmove Wheel Whee	1995 1489 1590 1590 1590 1590 1699 If 283 (44 8 - Least 188.90 137.90 111.45 114.40 117.70 Close 121.50 107.90 111.50 IT Wheel IT London Close 120.3 112.8 103.0 IT 28 103.0 IT 28 114.90 141.90 141.90 141.90	1895 1447 1558 1558 1555 1558 1555 1680 8) 46m POSK Previous 136.50 137.25 111.25 117.70 Previous 121.00 107.85 111.40 23 (261), 100 toque FOSK (c Previous 120.3 104.4 104.4 104.6 141.20 141.20 141.20 141.20	1590 16 1490 17 1590 15 1595 15 1595 15 1595 15 139,00 1 117,70 111,50 117,70 111,50 117,0 112,5 104,0 120,5 104,0 141,50 141,50 141,50 141,50	(12).	Vc 64 42 22 22
Aug Sep Oct Ind Turnow Lun Jul Aug Sep Oct Nov Dec Jan There the briese barely strong dearer Cuotat	19.57 19.80 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 19.40 er 6150 (1 179.00 174.50 177.00 177.50 187.25 184.00 185.25 184.00 185.25 184.00 185.00 18	7 19.58 7 19.72 1 19.56 7 19.75 7 19.75 7 19.75 7 19.77 7 19.77 7 19.77 7 179.70 7 179.70 7 182.77 7 184.50 7 1	19.70 18.55 19.85 19.75 20.02 19.89 20.05 19.95 20.05	Juni Oct Jan BFI Turnove May Jun BRIAN Sep Nov Jan Burley Nov Jan Burley Sep Nov Turnove PIGS - Jan Turnove Algan Jul Oct Jan Turnove Algan Jul Sep Sep Nov Sep Nov Turnove PIGS - Jan Turnove Algan Jul Sep Sep Nov Sep Nov Turnove PIGS - Jan Turnove Algan Jul Sep Sep Sep Nov Sep Nov Turnove PIGS - Jan Turnove Algan Jul Sep Sep Nov Sep	1985 1489 1580 1580 1580 1580 1689 1689 1689 1688 1688 111.45 111.45 111.45 111.50	1885 1447 1558 1558 1558 1558 1558 1558 1558 155	1590 16 1490 14 1590 15 1595 15 1595 15 1595 15 138,00 1 111,00 111,00 111,50 Barley 10 16 117,0 1120,5 117,0 1120,5 117,0 1120,5 117,0 1140,80 140,80 140,80 141,20 141,20	(12).	Ve 64

LONDON M	ETAL EXC	ANGE			Prices.	supplied	by Amelge	mated Me	烟 1
	Çicse	Previ	DUS .	High/Low		4 Official	Kerb di		en k
Abaniolum,	99.7% purity	(\$ per l	onne)				Total dall	y turnover	
	1294-6	1307-		1290/1290		89-9 0			
	1325-6	1338-	<u>-</u>	1330/1315	13	20-1	1326-7	74,4	
	de A (£ per 1 1305-6					06-6	Total dali	y kumover	20,
	1313-4	1277-1 1296-1		1306/1303 1322/1309		22-3	1313-4	113	,626
Lead (£ per	tonne)						Total da	ly turnove	¥ 1,
	321-3	326-8	_			25-8.6			
3 months 3	335-6	339-4	<u>-</u> _	338/335		5.5-6.0	336-7	13,7 ily turnove	756 1
	3300-20	8340-6	-	8330/8325	RR	25-6	10421 083	ily turinove	ır a,
	350-80	8390-		8400/8300		70-6	8275-300	10,5	10B
The (\$ per to							Total d	ally turnor	ver 1
	9896-705 5780-6	5780-7 5840-8		5696/5695 5800/6785		95-700 75-85	5780-5	6.65	90 fa
Zinc, Specie			_					lly turnove	
	1087-8	1088-0		1087/1085	10	55.5-6.0			_
	1103-4	1100-4	<u> </u>	1106/1100	10	19-100	1102-4	28,6	27
SPOT: 1.719		3 mont	hac 1.6	964	6 m	ontha: 1,6	rri	9 mo	ratha
			_						
LONDON W					Na	w Y	ork		
(Prices supp							<u> </u>		
Gold (fine co			equiv	lent	GOLD	100 troy	oz.; \$1troy i	<u>02.</u>	
Close Opening	355.20-355. 363.80-354.					Close	Previous	High/Lov	* ·
Morning fix	353.90	2	07.993	-	Mary Jun	357.4 358.1	355.2 356.0	0 358.6	0
Alternoon fo Dey's high	r 355.00 355.30-365.		07.17B	•	Juli	359.8	357.7	٥	0
Day's low	353.40-353.				Aug	360.5 363.5	358.6 361.5	361,0 363,8	: 34
Loco Lde 18	son Gold Le	adlag .A) seda	/n US\$)	Dec	368.6	364.6	367.1	3
1 month	5.28	6 mon		8.15	Feb Apr	389,0 373.0	367.0 370.9	0	. G
2 months 3 months	5.29 5.20	12 ma	11114	5.10	-Jun	376.4	374.3	375.0	3
Silver fix	g/fine oz	и	S cts (oulv					
Soci	236.15		00.50						
months 5 months	241.90 248.05	4	26.40 12.25		==				·
12 months	260.70		5.85		PLAT		roy oz; \$/tr		_
BOLD COR	=				Jul	302.7	Previous 392.1	High/Los	" -
(Prices supp		iherd &	letals)		Oct	397.0	395.4	398.0	3
	\$ price		viupe S	ralent .	Jan Apr	401.2 404.8	400.6 404.2	. 406.5 405.0	4
Krugerrand	355,00-35		207.25		Jul	408.8	408.2	0	0
Mapia lee! New Sovere!	364.00-36 on 86.00-87.		212.50- 27.00-5						
LYNOED OF					====				_
Alexandrium (S				Puts	SRYE		oy oz, cent		
Strike price	\$ torane Jul	Sep	.hd	Sep		Close	Previous	High/Lor	
1200 1300	118 43	143 72	3 27	10 73	May	402.5 402.8	400.3 400.7	403.0 · 0	. O
1400	6	29	91	30	Juj	405.5	403.3	406.5	40
Copper (Grad	de A) () 	-	ute	Sép Dec	410.3 417.2	406.3 415.1	411,5 418.0	4
2158	121	132	25	.58	Jan	419.2	417.1	0	٥
2250 2250	62 25	81	65	105	Mar May	424.7 429.9	422.5 427.8	423.5 0	4
2350		45 .	128	168	Jul	435,1	483.0	6	0
Colleg	Jul	8ер	Jul	Sep	Şep	440.8	438,7	Φ.	9
500	65		1						
550 600	24 5	48 21	10 41	11 34					
Cocce					HAU	0949F 6	OPPER 25.	000 lbar ar	
		Sep	Jul	Sep	11(04)				_
560 800	63 22	52	1 10	12		Close	Previous		_
550	4	24	52	34	May Jun	106,20 59,80	99.50 99.25	100.50 100.10	9 9
Breat Crude	Jul		L.		Jul	98.80	96.00	99. 15	. 5
1850	<u></u>	Аиф	Jul	Aug	Aug	98.35	97.80 97.25	0 98,25	9
1900 1850			13		Sep Oct	97. 9 0 97. 8 0	97.00	C .	9
		90			Nov	97.30	96.70	a	0
	53							63 00	
	53				Dec Jan	97.00 96.75	96.45 96.16	97,30 97,00	· 9
1950	50				Jen Feb	97.00 96.75 96.40			· 8
	53				Jen	96.75	95.16	97.00	. \$

			tal Trading)	CRUID	E OEL (Lig	pht) 42,000	US galls \$	/barrel	Ch	icag	•		
	Kerb delbu	·	28,068 lots		Latest	Previous	High/Lo	·	<u> </u>		200 by min; o	cents/601b b	ushei
	rous quay	BUILDAGE	20,000 100	Jun Jul	21.25 21.23	21.18 21.21	21.34 21.32	21,21 · 21,21	. ====	Close	Previous	High/Low	
	1326-7	74,	681 lots	Aug	21.32	21.34	21.36	21.25	May	563/4	564/0	566/4	580/0
	Total daily	turnover	25,309 lots	Sep Oct	21,43 21,60	21.45 21.58	21,44 21,53	21,38 21,46	Je	571/6	572/2	575/4	587/9
_	1313-4		630 lete	Nov	21.60	21.63	21.61	21.63	Aug Sep	574/6 575/6	579/4 577/4	579/0 579/0	571/0 572/4
_			,626 lots r 1,196 lots	Dec Jan	21.58 21.54	21.60 21.62	21.67 21.65	21.55 21.51	Nov	563/0	685/0	587/6	579/4
_	1040 081	y milote	X 1,140 1045	Feb	21.48	21.56	21.50	21,48	Mar	594/0 604/2	505/4 606/6	596/0 606/4	,500/6 601/0
	336-7	13,7	756 lots	Mar	21.42	21.51	21,44	21.40	May	612/2	6140	615/4	610/4
	Total dail	y turnovi	r 3,105 lots	HEATI	No of 4	2,000 US ga	tile cents	IS cells					
	8275-300	10.5	08 lots		Lebout	Previous			SOYAL		60,000 lbe; c	:ents/tb	
-			ver 951 lots	Jun	5600	· 6591	5600	5685		Close	Previous	High/Low	
				Jul Aug	5855 5790	5658 5735	5870 5755	5830 5725 ·	May. Jul	19.55 19.71	19.78 19.92	19.85	19.50 19.70
	57 8 0-5		IO fots	Aug Sep	5730 5875	5880 _	5880	5885 .	Aug	19.86	20.11	20.06 20.20	19.88
_	Total dail	y <u>burnove</u>	r 4 <u>,9</u> 15 lots	Oct	5990	5966	6000 6085	5975 6080	Sep	20.06 20.22	20.28 20.48	20.38	20.08
	1102-4	28.4	27 lots	Nov Dec	6160 6160	6083 6178	6180	6170	Dec	20.56	20.78	20.57 20.87	20.20 20.56
_				Jan Feb	6180 8075	6178	6180 6076	6170	. Jen Mer	20.73	20.92	21.05	20.73
7	77	9 ma	raths: 1,6634	Mar	5875	6073 5848	5875	5850 ·			21.26 U. 100 tons;	21.35	21.02
									301A	Close	Previous		
	ork			coco	A 10 tonn	ne;\$/tonne	•		May	171.2	170.5	High/Low 171.5	169.1
,	xz.: \$/troy o				Close	Previous	High/Lo	w .	Jul	173.1	172.6	178.3	171.3
-	Previous	High/Los		Jul	992	997	1002	990	. Aug Sep	178,8 174,5	173.5 174.5	174.0 175.0	172,5 173,8
_	355.2	Luight Los	0	Sep Dec	1020 _ 1059	1025 1066	1027 1068	1017 1058	Oct	175.1	175.3	175.8	174.4
	356.0	358.8	335.5	Mar	1101	1108	1107	1100	Jan	177,4 178,0	177.2 170.0	177.9 179.0	176.5 177.7
	357.7 358.5	0	0 · 957,8	. May	1130 1188	1135 1163	0	0	Mar	180,5	180.5	0.	0
	355.6 361.5	361,0 363,8	382.0	Sep	1186	1186	Ö	Ö			<u>.</u>		
	364.6	367.1	963.9 C	COFFE	EE "C" 37	,500lbs; ce	nts/ibe		MAIZE	£ 5,000 bu	min; centu/5	i6ib bushel	
	357.0 370.9	0	· <u>.</u> 0		Close	Previous	High/Lo			Close	Previous	High/Low	
	374.3	375.0	375.0	May	88.65	88.50	89.30	88.65	May	242/2	230/2	242/4	239/2
				ا لال	39.75	89.80	90.20	89.50	Juli Sep	247/4 247/4	248/0 245/6	247/4 247/0	245/6 245/4
				Sep Dec	91.90 94.90	91.90 94.95	92.35 95.20	91,75 94,90	Dec	248/2	245/4	247/2	245/2
_				Mar May	97.70	98.00	0	.0	Mar . May	253/4 257/4	253/0 256/8	254/4 258/2	252/6 257/2
,	oy oz; \$/tro		·	yd '	99.90 101.75	99.75 102.00	a .	0	Jul	262/0	251/2	252/0	281/4
_	Previous	Highrico		Sep	104.00	103.20	0	0	WHEA	T 5,000 bu	min; center	60tb-bushel	
	392.1 395.4	392,8 396,0	390:5 395.0	SUGA		911" 112,0	<u> </u>	 _		Close	Previous	. High/Low	
	400.6	400.5	400.5	•	Close	Previous	_ 		May	287/0	232/4	287/0	282/0
	404.2 408.2	405.0 0	405.Q Q .	Oct .	8.07 7.76	7.85 7.82	8.08 7.79	7,82 7.61	Jul Sep	292/6 301/4	288/4 298/0	293/0 301/4	265/6 . 297/4
		_	-	. Mar	7.83	7.70	7.24	7.70	Dec	313/4	309/6	313/6	309/6
			•	May	7.91	7.82	7.92	7.82	Mar May	327/0 319/4	316/0 315/4	321/0 319/4	317/0 316/0
				Jel Oct	8.03 8.15	7.98 6.12	0	0					و ال
1	y oz, cents	/troy az.				cente/fibe		1	LIVE	ATTE E AT	.000 lbs; cen		
	Previous	High/Lo		٠	Close	Previous				Glose	Previous		
	400.3	403.0	\$96,0	. <u>(14)</u>	94.05	92.30	94.25	92.75		74.37		Highflow	B/ 60
	400.7 403.3	0 408.5 ·	· 0 400.0	Oct	82.85	81.00	83.00	82.05	- Jun - Aug	72.30	74.92 73.12	75.40 73.47	74.32 72.25
	408-3	411,5	405.0	. Dec	76.90 76.65	73.95 74.85	75.95 76.65	74,90	Oct	74.30	75.12	75.27	74.20
	415.1	418.0	413.0	May	76.80	75.55	77:05	78.25	Cled Feb	74.97 74.40	76.57 75.25	75.77 75.95	74.90 74.40
	417.1 422.5	0 423.5	. 0 420.0	لول . <u>- اول</u>	77.10		77.58		Apr	75.30	75,80	75.75	75.25
	427.8	0	Ō .	ORAN	GE JUNCE	15,000 kps	r; cente/lbs	1. 4. 4. 1.	, spor	73.95	74.40	74.25	73.80
	483.0 438.7	0	0		Close	Previous	High/Lo	4 <u></u>			00 fb; cents/	ibs 7	
		٠.		Jul	117.05		117.90	1995	· 	Closs	Suerions	High/Low	
		٠. ٠		Sep Nov	117.45 116.55	118.25 117.30	118,35	117.45 118.25	Jun Jul	55.80	57.62	57.40	58.62
									ADG	65.06 51.92	65.85 52.85	65.80 52.70 ·	\$4,82 51.70
į	PPPER 25,0	00 lbe; ce	nte/ibs	_		<u> </u>			Oct	46.75	47.60	47.60	48.70
	Previous	High/Lo		BIDI	CES				Det Feb	46.85 - 46.70	47.40 47.40	47.50	46.77
		100.50	-98.90	REU	NERS (Be	se: Septem	ber 18 191	1 = 100)	Apr	48.25	47,40 45,85	47.00 45.55	45,70 45,15
	99.50 99.25	100.30	99.60		May 2	0 May 17	mnih =	o yr ago	Jun	49.75	49.95	0	49.76
	96.00	99.15	98.50	1-	1728.1			1905.0	PORK	BELLES .	40.000 lbs; c	ants/lb	
	97.60 97.25	0 98.25	0 87.75 · ·	500		Base: Dec.	·	<u> </u>		Close	Previous	High/Low	-
	97-00	C .	0 .	1===				اجسنت	May	59.10	51.10		. 60 15
	96.70	q	0	1—	May 1			to yr ago	Jul	55.90	57.90	59,77 57,70	. 66,10 . 65,90
		~~											
	96.45 96.16	97,30 97,00	· 96.80 · 97.60	Spot		128.49 128.50	126.59 128.13		, Pob	59.20 \$5.80	55.20 55.60	54.76 56.60	59.20 56.60

FINANCIAL TIMES TUESDAY MAY 21 1991

Shares edge forward in poor turnover

THERE WAS just about enough base rate optimism left yesterday to inspire a very modest gain in share prices but the new equity account opened with one of the lowest daily trading volumes of the year. The day's batch of UK economic data indicated that recession still holds sway over the UK economy, a view from which Mr Norman Lamont, the chancellor of the exchequer, did not appear to dissent, although he stressed that government strategy was "broadly right" in terms of reducing

TIMES TOTAL MAN

ath awa

Investors were restrained by the uncertain political climate the uncertain pointical camate following the government's defeat last week in an important by election. A UK general election has now been virtually ruled out until the autumn, at the earliest, and the govern-

inflation this year.

Accour	nt Dealing	Dates
"First Deafings: Apr 29	142y 20	Jun 3
Option Declarate May 15	lona: May 30	Jun 13 .
Lest Dealings: May 17	May 31	Jun 14
Account Day: May 28	Jun 18	Jon 24
"New-time deal! 4,38 pm two but	nga may take Mates days os	place from riler-

public opinion polls.

Speculative interest also faded as market specialists began to take a less ebullient view of Hanson's acquisition of a stake in ICI. The City now believes that the potential reg-ulatory objections may well smother any full bid for Britain's blue chip chemical company.

ment is faring badly in the

With most other European bourses closed for the Whitsun holiday, the international blue

chips were left to take their lead from Wall Street.

The trading session opened move that upset the stock market last week.

Encouraged also by expectableakly following publication of the April survey of the dis-tributive trades by the Confederation of British Industry and the Financial Times, which reported that any sustained recovery in the UK economy may still be some way off. The theme was taken up at midmorning by the announcement

rallied from an early fall which in part reflected downward adjustments to 16 shares in the FT-SE 100 list to allow for dividend payments.

A further half- point cut in base rates is still seen as virtually certain in the weeks ahead; it was merely over-opti-mism on the timing of such a

that retail sales fell by a provi-

But the stock market soon

sional 3.5 per cent in April

Encouraged also by expecta-tions of a firm start to the new Wall Street session, borne out in fact by a gain of 12 Dow points in early trading, the London market achieved an advance of 13 Footsie points at

best, although this still left it

four points short of the 2,450 hurdle.

However, the mood was one of lassitude and share prices could not hold on to even this modest improvement. By the close, the FT-SE Index was just below the day's best at 2,466.6 for a gain on the thinly-traded session of 12.7 points. Seaq-recorded trading vol-

nme which takes in both customer and inter-dealer business in equities, fell to only 327.2m shares from Friday's level of 492 6m

terday's Seaq total, which was one of the lowest this year for a normal trading day, indi-cated that investors were losing faith in the market's prospects for the second quarter of the year. Optimism for the year-end remains high but few analysts expect much lifting of recessionary pressures in the UK before the third quarter of

The strategy team at County

Dealers commented that yes-

LONDON STOCK EXCHANGE

NatWest, commenting on a "surprising" fall in institutional liquidity from 8.2 per cent to 5.3 per cent over the first quarter of 1991, predicts that the stock market will face a total of £10bn in rights issues this year. Nikko Securities said that the Hanson/ICI develop-ments had failed to alter a "depressing short-term out-look."

tricity Package finished 20 stronger at £2138.

The water issues held up well as more of the big broking

houses moved in to support the sector. BZW issued a sector

note recommending increased weightings ahead of the pre-liminary reporting season,

while County NatWest said the results "will demonstrate the sector's ability to deliver real dividend growth of around 5

per cent through the early 1990s.

The listing of Har-vey & Thompson was

suspended at 10.05am with the

shares 45 down at 253p. After the close, the company said the

suspension had been requested pending announcement of the interim results, including an update on the current position regarding Lightship, by the

end of this month.

Renaissance dipped 13 to 49p

on news that last year's

accounts will be reported two

months later than usual, and

that the desire to conform with British Venture Capital Associ ation guidelines may cause a "significant reduction" in the

company's portfolio valuation,

dependent on the outcome of some of the transactions.

Nursing Services dropped to

78p before recovering to end 19

down on balance at 93p on

reports that a subsidiary com-

pany had been placed into

Other Market statistics,

including the FT-Actuaries share index and London

Traded Options, Page 25

receivership.

USM-quoted Associated

Low (19/2)90.58 105.4 50.53 (2/1) (28/11/47) (3/1/75) 93.36 93.51 93.58 (16/1) (5/4/91) (26/6/40) 127.0 734.7 43.5 (22/2) (15/2/83) (28/10/71) 179.7 2054.8 2545.3 986.9 (18/1) (5/4/91) (23/7/84) 1154,484 1151,02 1151,25 1146,28 1154,15 Basis 100 Scot. Sucs 15/10/26, Posel Sc. 1028, Oxforay 1/7/35, Scot comps 12/9/55, Basis 1000 FT-SE 100 31/12/63 & FT-SE Escotack 200 26/10/90. W MI 19.83 \$ Indicative 4.94 8.66 14.27 ●Ord. Div. Yleid ●Earning Yid %(fuli) ●P/E Ratio(Net)(☆) 4.96 8.77 14.08 4.96 8.80 14.03 8.69 14.22 24,575 32,707 30,159 28,129 28,463 25,555 889,00 1288,22 850,81 1082,10 849,99 - 32,394 29,932 20,078 28,279 26,99 - 409,7 434.6 575.4 439.3 571.5 SEAC Bargns 4.45pm GILT EDGED ACTIVITY May 17 May 16 Indices* Gilt Edged Day's Low 1919.9 Ordinary Shere Index, Hourly chi Day's High N/A 102.9 95.4 Bargains Open 9 am 10 am 11 am 12 pm 1 pm 2 pm 3 pm 4 pm 1930.9 1925.9 1924.1 1928.2 1928.2 1928.4 1920.2 1926.4 5 - Day average 101,2 96.6 SE Activity 1974. †Excluding Intra-market business & Overseas turnover FT-SE 100, Hourly changes Day's High 2467.1 Day's Low 2452.9 10 am 11 am 12 pm 1 pm 2463.8 2 pm 2462.8 2 pm 2465.5 London report and Day's High N/A Day's Low N/A FT-SE Eurotrack 200. Hourly chances!
 Open 1165.77
 10 am 1155.04
 11 am 1156.19
 12 pm 1155.92
 1 pm 1157.45
 2 pm 1158.96
 3 pm 1158.96

FINANCIAL TIMES STOCK INDICES

Dividend hopes lift BT

DEALERS reported persistent and strong support for BT (for-merly British Telecom) ahead of Thursday's fourth-quarter figures. The shares closed 6 higher at 368p with turnover reaching 4m, slightly above usual levels in the stock.

usual levels in the stock.

The majority of analysts expect the group to achieve pre-tax profits of £3.05bn for the year, against £2.69bn last time. The market's range for this year's figures is from £3bn to £3.1bn. The general consensus is that the dividend total will rise from £1.8p to £3.2p.

One school of thought One school of thought believes BT may hint at a more generous dividend policy on Thursday. One specialist believes there is acope for BT to raise the dividend by 20 per cent per annum for five years. It was also pointed out that the government will make sure there is a strong appetite for the remaining 49 per cent of BT, scheduled to be sold later this year. Mr Chris Tucker, electronics analyst at Carr Kit-cat & Aitken, said he was looking for a further slowing in telephone call volume growth because of the recession, but that this would be more than

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British Steel talk

offset by stringent cost con-trols which could involve staff cuts of around 15,900.

e in order to reduc rights issue in truer to reinter gearing. However, there was also speculation of a major split among top BS managers over its dividend policy. The suggestion in the market was that those favouring maintain-ing the dividend had gained the upper hand at board level.

MGN at discount Mirror Group Newspapers

(MGN) ended its second day of trading below the flotation price of 125p amid signs of sell-ing by smaller investors. Overseas shareholders – estimated to own around 60 per cent of the company - were also sellers, but a two-way pull developed as support emerged from US investment houses and a handful of UK

The smaller investors sold on disappointment that MGN had not held at a premium to the flotation price. "With no immediate profits on offer,

many have decided to cut their losses and get out now," one analyst commented. MGN finished 2 easier at 123%p on turnover of 14m.

Courtaulds falls Investors continued to heed

advice given a week or so ago and realised profits in Court-aulds ahead of Thursday's pre-liminary results. Smith New Court at that time urged cau-tion, believing the dual effect of recession and adverse exchange movements had left their mark on the industrial materials group.
"These pressures

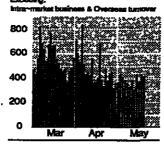
unlikely to ease until well into the second half of Courtaulds' current year," said Smith, which advised clients to "topslice" (meaning take profits made through this year's good run in the stock). It closed down 11 more at 384p after rel-atively thin trade yesterday. The market expects the group to report profits of £175m to £180m, compared with £168.1m Oil shares were among the

market's most impressive performers, with a number of broking firms taking the view that the sector had been over-sold in recent weeks, having retreated from a relative of 220 down to 196. County NatWest expects the

relative to recover to around 210 if the crude oil market tightens due to the absence of Iraqi and Kuwaiti oil exports. County said it would be safer to play a rise in the sector through Shell and Enterprise rather than through BP. The County stance, coupled with a number of positive noises on British Steel closed the stock from other brokers, unchanged at 128p against a boosted Shell by 11 to 514p on rising market amid talk of a good turnover of 4m. BP, boosted Shell by 11 to 514p on aged a 3 rise at 321p, on 5.2m.
Enterprise, responding to a
buy recommendation from its
brokers, hardened 2 to 515p on heavy turnover of 2.5m; a big stock overhang, said to have developed after the joint ven-



Equity Shares Traded Turnover by volume (million)



place, was said to have been largely eliminated. British Gas gave another strong performance, closing 4 ahead at 244 / p on 4.1m shares, with a number of brokers high-lighting the 4.25 per cent on the final dividend alone. Gas's figures are due on May 30.
ICI turned back 14 to 1233p awaiting any further develop-ments in the Hanson situation.

A negative reassessment by Smith New Court of prospects for the chemical industry led to profits downgradings across the board. Few companies escaped Smith's revisions, which followed a series of gloomy statements on first-quarter trading. Most of these were made at recent annual

meetings. April was also said Laporte, the sector favourite outside the leading groups, was affected more than any other and ended 8 off at 562p. Smith cut its forecast of current year profits to £113m, from £120m, but added that the stock should be bought on weakness.

ture deal with Elf was put in **NEW HIGHS AND LOWS FOR 1991**



Hickson International, 165p, and Brent Chemicals, 147p,

showed only minor losses.
Simon Engineering recorded

trading volume heavier than usual of 3.3m shares as the bid for Robertson Group went unconditional. Some Robertson holders have elected to take the alternative cash offer and the unwanted rump of the new shares issued to finance the deal was placed at 327p a share. Simon shares ended a penny harder at 334p. ASW Holdings, the Weish

steel and wire group, tumbled 12 to 243p after Smith New Court said prospects for the steel industry were decidedly gloomy and tagged the stock a sell. The securities house reduced its profits estimate for the current year to £28m from £35m, but expected the dividend to be maintained.
Wire rope maker Bridon was

similarly downgraded. Smith now forecasts 1991 profits of 25.5m, previously £7.2m, and believes the dividend rate will be held, although the distribution would not be covered. The shares closed 9 down at 136p.

William Cook was one of few steel-related stocks to resist the downturn. Favourable comment ahead of the annual results, due to be announced today, lifted shares of the UK steel castings group to 283p before a close of only 3 up on balance at 277p. Analysts are looking for profits of around £12m, compared with £9.5m last year. Associated British Foods

rose 10 to 510p following stronger than expected 12-months' results. Profits of £317.4m com-pared with £283.8m last time and analysts' forecasts of around £320m. Estimates of around £340m for the new accounting year to September were left unchanged. This financial year has been extended by six months to give a year's end in September. Weaker UK milling and baking led to worries over Ranks Hovis McDougall, which reports on Thursday. RHM

closed unaltered at 303p. Brent Walker shares crept up to 34p before settling a net 3 higher at 32p with turnover in the stock reaching 930,000

News that the two Scottish electricity generators will be sold at yields of between 5.8 per cent and 4.5 per cent was interpreted by the market as extremely bullish for the other electricity stocks.

PowerGen moved up 2% to National Power edged ahead to 136% p on 3.4m. Best performers in the regional electricity shares included Eastern, 5 higher at 190p, while East Midlands, 205p, and Southern, 210p, were up 4 each. The Elec-

TRADING VOLUME IN MAJOR STOCKS

EQUITY FUTURES AND OPTIONS TRADING

THE derivatives markets were thinly traded as turnover in their underlying securities slackened. The closure of some European centres and an absence of major market-mov-ing news also led to a dearth of institutional interest.

For much of the session the

equity fatures exerted little influence over the stock mar-ket. Instead, the June FT-SE 100 index contract traded at or just below fair value - the pre-mium brokers' calculate is

sary to reflect future dividend payments and the cost of

finance.
At one stage, June briefly traded down to the spot index. It quickly recovered and by the close it was at 2,478, up 17 points on the day. The cl premium stood at 11 points against a fair value premium of around 9. World options markets are

sluggish with turnover down by over a third on Friday's levels. Among the FT-SR index options, the July 2,200 puts were the most active. Stock options were also quiet. ICI was the busiest ac also indicating little immedi ate movement in global equi-ties. Implied volatility, a mea-

stake continued to generate

sure used by options traders of the likelihood of movement in

shares, has declined in many

world options markets. UK traded options remained

LONDON SHARE SERVICE

BRITISH FUNDS BRITISH FUNDS—Contd **INT. BANK AND O'SEAS** 1991 High Low Price + or Yield To Five Years) 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 10 (1) (2) **Building Societies** Five to Fifteen Years Five to Fifteen 49,4 481,00. 10e 1896 ... 49,4 481,00. 10e 1896 ... 1153 1063 | Tress 13 to p 1997; 1023, 97, Each 10-10e p 1997; 948 593 | Tress 13 to p 1997; 948 593 | Tress 13 to p 1997; 968 931 | Each 1998 ... 1276 117 | Each 15e 1997 ... 857 80-1 | Tress 15e p 1995 ... 1278 121 to | Tress 15e p 1995 ... 1278 121 to | Tress 15e p 1995 ... 1092 1044 | Each 12pe 1998 ... 1093 1045 | Each 12pe 1998 ... 1014 973 | Tress 15e p 1999 ... 1014 973 | Conversion 104 pc 1999 ... 440 894 | Conversion 104 pc 1999 ... 116 2 | 104 | Tress 15e 2000 d... 116 1105 | Tress 15e 2000 d... 1105 1105 | Tress 15e 2000 d... 1105 1105 | Tress 15e 2000 d... 1041 1021 Twick Augus 33pt La 2021 103 \ 107 104 \ 100 4 25pc li 24 106 \ 106 \ 144 **FOREIGN BONDS & RAILS**

APPOINTMENTS JAMES CHANDLER

Daiwa makes changes

■ Mr Minoru Mori, chairman of DAIWA EUROPE, London, is to return to Tokyo as head of Daiwa's investment trust division. A managing director of the holding company, Daiwa Securities Co, he will also assume responsibility for the new products division in Tokyo. He is to be replaced in London by Mr Katsuhiko Fuimoto, who assumes responsibility as executive area manager of Europe and the Middle East region, chairman of Daiwa Europe, chairman of Daiwa Europe NV, and chairman of Daiwa Middle East, He is managing director, international division, Daiwa Securities Co.

■ HERITAGE, housewares importer, has appointed Mr George Raynor as group finance director. He takes over from Mr Mark Merrill, and will be based in London. Mr Raynor has been finance director of GTE Rotaflex, and of Powerson Holdings.

■ Fidelity Institutional Asset Management, a new division of FIDELITY INTERNATIONAL, has appointed Mr Alan Ainsworth as chief executive officer. Mr Bruce Johnstone as chief investment officer, and Mr

Graham Nutter as chairman Mr Michael Wrobel will head Fidelity Pensions Management as managing director. He was joint managing director.

■ Ms Gill Saunders has been appointed finance director of the Wedgwood division of WATERFORD WEDGWOOD. She joined the group in 1969. Mr Peter Brown has been promoted to finance director of the company's Johnson Brothers division. He was financial controller.



Dr Dickson Mabon (pictured), former MP and Minister of State for Energy, has been appointed deputy chairman of CAIRN ENERGY. He has been on the board since 1982. He is also a director of East Midlands Electricity Generation.

Mr David Leggett has been appointed sales and marketing director of LEVER INDUSTRIAL High Wycombe.

(LEWES) has appointed Mr Tim Chessells as non-executive chairman. He is chairman of the North East Thames Regional Hospital Authority, and a director of three

■ HAMPSON INDUSTRIES has promoted Mr J.B. Welch to company secretary. He succeeds Mr S.J. Hardie who is being promoted to finance director of one of the group's northern subsidiaries.

■ Mr Nick Roberts has been appointed associate director of CHRISTIE & CO. He is in the corporate and acquisition division, responsible for brewery and corporate pub ils in the south of England.

■ Mr Alastair Dacre Lacy, a

director of Turriff Corporation, and chairman and managing director of Technicare International, has been appointed a director of the LONDON CHAMBER OF COMMERCE AND INDUSTRY. Mr Robin Booth, who joined the Chamber last July as general manager (finance and administration) and company secretary, has also been appointed a director. Before he joined be was group secretary of Rea Brothers and a director of Stocklake Holdings, an international trading company closely associated with the bank.

Mr. H.A. Vice, a non-executive director, has been appointed deputy

chairman of BOWTHORPE HOLDINGS. He succeeds Mr. E.B.M. Grubb who has retired.

Societe Generale senior moves



Mr Gerard Freiszmuth-Lagnier (pictured) has been appointed managing director of SOCKTE GENERALE MERCHANT BANK in London. He was bead of international equities in Societe Generale's capital mar-kets division, and succeeds Mr Phillipe Collas who returns to Paris to become director of the group's human resources divi-

■ DAVIES ARNOLD COOPER. City solicitors, has appointed Mr Andrew Priest as financial director. He was finance director of National Opinion Polls, which was recently acquired by MAL

New Zealand Forest Products Finance N.V.

The Rate of Exchange, as defined in Condition 8(b) of the above described Bonds, applicable to the Coupons due May 15, 1991 from those Bonds is U.S. 80.5892 for each N.Z. Dollar. Each Coupon in the amount of N.Z. \$158.75 will be paid U.S. \$93.54.

MORCAN GUARANTY TRUST COMPANY Dated: May 21, 1991

NISSHIN INTERNATIONAL FINANCE (NETHERLANDS) B.V. U.S. \$10,000,000 Floating Rate Notes 1991 21st May, 1991 to 21st November, 8.95% per senum Interest Period

Interest Rate 8.95% per annu Interest Payment due 21st November, 1991 per U.S. \$3,552.22 Nippon Gredit International Limited London Agent Bank 21st May, 1821



52, rue de l'Industrie - B-1040 Bruxelles VAT N° 403.079.441 - R.C. Bruxelles n° 227.957

Dividend Notice

At the Annual General Meeting held on May 13, 1991, the Shareholders approved a dividend payment of BF 561 (or BF 421 net after deduction of withholding tax) in respect of 22,015,057 shares outstanding at December 31, 1990, coupons № 6 to 30 still attached. For the 125,000 AFV shares, coupons № 6 to 30 still attached, the dividend amounts to BF 449 net after deduction of withholding tax.

The dividend will be payable as from May 23, 1991 against coupon Nº 6 at: Banque Bruxelles Lambert Générale de Banque Kredietbank Banque Paribas Belgique
Banque Nationale de Paris Crédit du Nord
Banque Internationale à Luxembourg Banque Générale du Luxembourg
Algemene Bank Nederland Amsterdam-Rotterdam Bank

Commerzbank Deutsche Bank Oresdner Benk
Crédit Suisse Swiss Bank Corporation Union Bank of Switzerland
Credito Italiano Barclays Bank (168 Fenchurch Street, London)
as well as at the Company's registered office in Brussels.



FUTURES AND FOREIGN EXCHANGE 24 HOUR COVERAGE

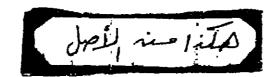
CAL Foruses Ltd Windsor House 50 Victoria Street London SWIH ONW Tel: 071-799 2233 Fax: 071-799 1321



TELEPHONE: 071-828 7233 FTSE 100 WALL STREET
Jun. 2469/2469 +4 Jun 2896/2908 +8
Som Prices Channel Sept 2917/2929 +16 5pm Prices. Change from previous 9pm close HOW WELL DID YOU JUDGE THE MARKET?

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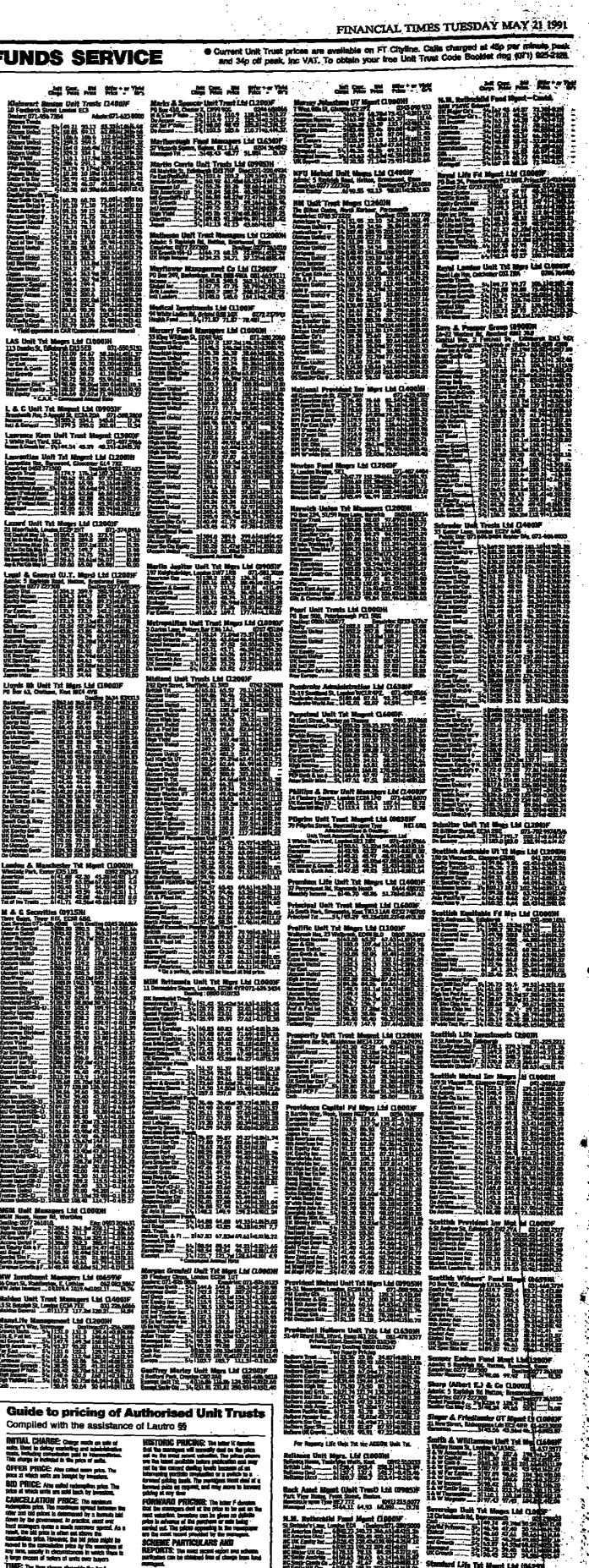
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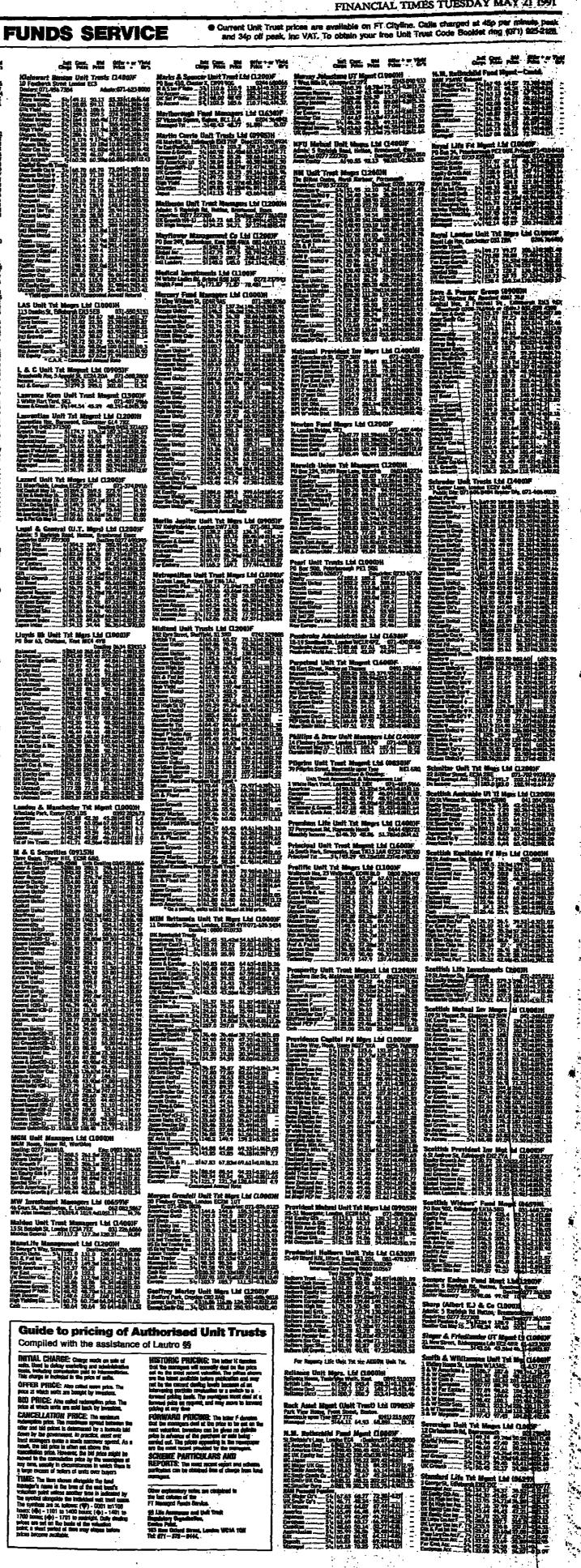


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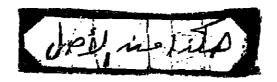
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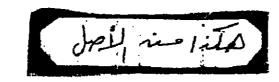


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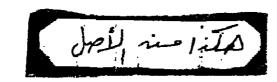
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CURRENCIES, MONEY AND CAPITAL MARKETS

FOREIGN EXCHANGES

Dollar down in thin trading

THE DOLLAR lost ground in thin trading, with many Euro-pean centres closed for the Whitsun holiday. Lack of fresh economic news left the dollar to drift lower in a corrective reaction to Friday's upward

The US Federal Reserve and the German Bundesbank were reported to have sold dollars last Friday in New York, as the currency rose sharply to a high of around DM1.76, on the delinkage of the Swedish krona from a basket of currencies in which the dollar had a 21 per cent weighting.

Interest rate differentials had favoured the knona against the dollar in this basket. encouraging operators to borrow the US currency and lend krona. This created short dollar positions, which had to be covered on Friday as a result of Sweden's decision to link the krona to the Kou

the krona to the Ecu.
The levels touched in New York on Friday suggested that this process was overdone how-ever, leading to yesterday's

reversal.

But dealers in Tokyo were not convinced that the situation would be unravelled without a further rise in the dollar's value. In the Far East it finished at DM1.7560 and Y138.85, amid speculation that squaring of positions involving an Ecu linked currency would

£ 1	n ne	W TO)HR
May.20	Late		Previous Clase
E Spot	1.7185-1 0.91-0 2.32-2 6.95-6	89pm 29pm	1.7105-1.7115 0.88-0.86pm 2.35-2.32pm 7.00-6.90pm
			y to the US dollar
	RLIN		
		May.20	
8.30 am 9.00 am 10.00 am 11.00 am 1.00 pm 2.00 pm 3.00 pm 4.00 pm		91.4 91.5 91.5 91.6 91.8 91.8	92.0 92.0 91.9 92.1 92.0 91.9 91.9

CURRENCY	MOVE	MENTS
May 20	Rank of England index	Morgan ^{ee} Generally Changes %
Sterling U.S Dollar Camedian Dollar Austrian Schilling Belgian Franc Danish Krone D-Mark Serias Franc Dunck Guilder French Franc Lira	91.7 66.4 105.5 108.3 1100.0 108.4 116.1 112.4 112.7 101.9 98.5	-20.3 -12.1 +2.7 +10.9 -3.0 +22.6 +21.4 +14.9 -13.9 -20.2

1337

CUR		CY RA	-
May 17	Bank # rate %	Special * Uraving Rights	Enropez Carres Valt
Sterling J S Opdar J S S S S S S S S S S S S S S S S S S S	10.00 6.00 19	0.774433 1.34833 1.55210 16.1644 47.2741 8.78426 2.27706 2.258867 7.79624 1712.00 185.801 NJA 142.299 8.25147 1.44704 NJA	0.6943 1.207 1.389 14.47 42.33 7.863 2.057 2.318 6.980 1532 1.66.3 1.744 225.1 0.7686
8 Bank rate ref	875 Mr 084	krai baak dise	OWN PARE

May 20	Ţ.	5
Argentina	16854.6 - 16891.5	9845.00 - 9855.00
Australia . Brazil	2.1975 - 2.1995 470 55 - 471 40	1,2810 - 1,2820 274 80 - 275.10
Figland	6 9310 - 6,9695	3.9975 - 4.0005
Greece	321.60 - 328.00	189.50 - 193.30
	13 3445 - 13 3580	7 7895 - 7.7915
KonsalSubi .	119.10° 1225.10 - 1244.90	68.00° 722.50 - 729.30
Kurait	N/A	N/A
Luvearboors	6105-6115	35.50 35.60
Mataysia	4.7340 - 4.7425	27635 - 27655
Mexico N Zealand	5115.20 - 5135.40 29165 - 29215	2707.00 - 2797.00 1.7000 - 1.7020
Studi Ar	63185 - 63765	3 7490 - 3 7510
Singapore	3 0275 - 3.0350	1715 - 17735
5 Ař (Cm)	4 8135 - 4 8250	28120 - 28135
SA((Fu)	56175 · 57110 46.75 · 46.85	3 <i>278</i> 5 - 33330 2730 - 2735
U.A.E.	6.1865 · 6 2450	3.6720 - 3.6740

MONEY MARKETS

hit the D-Mark, because of the high level of liquidity in the

German unit. Japanese traders estimated that this could lead to extra demand of around \$10-20bn for the dollar.

In quiet trading the US cur-rency fell to DM1.7280 from DM1.7360 at the London close. It also declined to Y138.20 from Y138.45; to FFr5.8625 from FFr5.8700; and to SFr1.4580 from SFr1.4670. The dollar's index rose to 66.4 for 66.3.

The D-Mark finished little changed against the Japanese

yen, after suffering some weak-ness in Tokyo cross trading as traders hedged short dollar positions against European currencies. It closed in London at Y79.95 compared with Y79.75 on Friday, improving from the level of around Y79.00 at the

Tokyo close.

There was some speculation that the Bank of Japan may soon cut its discount rate but

yesterday's action by the cen-tral bank, draining liquidity from the Tokyo money market, gave no encouragement to this

The closure of many European centres left foreign exchange trading thin and volatile. There were no official fig-ures on the European exchange rate mechanism from the European Commission, but unofficial data pointed to a strengthening of currencies where the main trading centre was closed. Milan and London were open, and the lira and sterling fell from second and third strongest in the ERM, to be relaced by the Belgian franc

DM2.9700 from DM2.9800; to SFr2.5075 from SFr2.5175; and to Y237.50 from Y237.75, but rose to FFr10.0775 from FFr10.0750. The pound's index lost 0.1 to 91.7.

EMS EUROPEAN CURRENCY UNIT RATES						
	Eco Central Rates	Currency Associates Against Eco May 17	% Change from Central Rate	% Spread vs Weakest Currency	Ohergents Indicator	
Sparish Pesela	133.631 1538 24 0.696904 42.4032 2.31643 2.05566 0.767417 7.84195 6.89509	127 438 1532 60 0.694351 42 3300 2.31832 2.05776 0.768663 7.86263 6.90001	-4.63 -0.37 -0.37 -0.17 0.08 0.09 0.16 0.26 1.24	6.16 1.62 1.62 1.16 1.16 1.15 1.08 0.98	8256434-1-5-80	

May 20	Our's spread	Clope	One spath	pa.	Three paceths	% p.a.
Kj	1.6915 - 1.7220	17185 - 17195	0.91-0.89com	6.28	2.32-2.29pm	5.3
elandt	1,5215 - 1,5505	1,5495 - 1,5505	0.60-0.55cpm	4.45	1_58-1_48pm	39
373ds	1.1485 - 1.1506	11490 - 11500	0.30-0.34cdls	-334	0.82-0.87ds	2
the lads.	19460 - 19785	19460 - 19470	0.54-0.57cdb	(-3.42 (1,49-1.54ds	-31
elgiom	W/A	35.50 - 35 60	8.50-10.50cds	-321 -412 -426 -437 -737	23.50-29.50dis	-29
easark	AUA	6.6075 - 6.6125	2.12-2.420reffs	-4.1Z	5.65-6.25ds	-21
क्षाधीर्	1,7245 - 1,7610	1.7275 - 1.7285	0.46-0.48phils	-3.25	1.28-1.31ds	-3.5
أحوس م	151.30 - 152.60	151.35 - 151.45 107,35 - 107,45	98-73cds	519	205-2456s	-5.
ملوم	107.30 - 108.75	107,35 - 107,45	64-68cdls	-7 <i>3</i> 7	172-180ds	-6.
والا	1279.50 - 1307.00	1282.00 - 1282.50	6.00-6.50threds	45	16.50-17.20dis	-2.
Orway	N/A	6.7125 - 6.7175	2.25-2.65oreffs	[-4,22]	6.40-6.90dis	-3.5
rance	5.8600 - 5.9560	5.8600 · 5.8650 6.2125 · 6.2175	1.67-1.720%	-3.47 -5.60 -2.08	4.45-4.55ds	-31
₩ 2051	62125 - 6,3150	62125 - 62175	2,60-3,20oretis 0,23-0,25ydis	1-250	7.70-8.70ds	-52 -1.7
	138.60 - 138.65	138.15 - 138.25	0.23-0.25/ds	2.00	0.58-0.6165	-1.4
USIP is	M/A	11.8975 - 11.9025	3.30-3.75grodis	器	9.00-10.2048	-32
o itzertand .		1.4575 - 1.4585	0.29-0.31cds	-247	0.81-0.8345	-24
CH	1,1675 - 1,1910	1.1900 - 1.1910	0.42-0.40cpm	4.13	1.07-1.04pm	3.

Ecs	Settertand 1.4540 - 1.4815 1.4575 - 1.4585 0.29-0.31cdk -2.47 0.81-0.834s -2.25										
Nay 20	Short term	7 Days notice	One Month	Three Mosths	Siz Montis	One Year					
Sterling US Dollar Can, Bollar Dottok Getider Syries Frant D-Mark French Franc Italian Lira Belgian Franc Yen Asian SS/Ing.	5% - 5% 9 - 8% 9 - 8% 84 - 88 94 - 9 12 - 10 812 - 813 75 - 74	15. 8. 8. 18. 18. 15. 15. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	1589-889-187-65 1589-889-197-65 1589-889-197-89-6	12-13-14-15-14-15-14-15-15-15-15-15-15-15-15-15-15-15-15-15-	14 8 8 8 9 14 5 7 8 6 6 6 1 8 8 8 8 9 14 15 7 8 8 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	114 - 114 64 - 64 93 - 88 93 - 75 93 - 75 93 - 94 115 - 115 93 - 94 64 - 64					

EXCHANGE CROSS RATES											
May.20	2	\$	ЭH	Yen	F Fr.	S Fr.	H FI.	Lira	cs	B Fr.	ECU
£	1	1.719	2,970	237.5	10.08	2.508	3.345	2204	1.977	61.10	1.443
\$	0.582	1	1.728	138,2	5.864	1.459	1.946	1282	1.150	35.54	0.839
DM	0.337	0.579	1	79.97	3_394	0.844	1.126	742.1	0.666	20.57	0.48
YEN	4.211	7.238	12.51	1000.	42.44	10.56	14.08	9280	8.324	257.3	6.07
F Fr.	0.992	1.705	2.946	235.6	10.	2.488	3.318	2187	1.961	60.62	1.43
S Fr.	0,399	0.685	1,184	94.70	4.019	1	1.334	878.8	0.788	24.36	0.57

ECU	0.693	1.191	2.058	164.6	6.985	1.738	2.318	1527	1.370	42.34	1
	1.637										
C\$	0.506	0.869	1.502	120.1	5.099	1.269	1.692	1115	1	30.91	0.7
Цn	0.454	0.780	1.348	107.8	4.574	1. 13 8	1.518	1000.	0.897	27.72	0.6
	0.299										
S Fr.	0.399	0.685	1,1B4	94.70	4.019	1	1.334	878.8	0.788	24.36	0.5

Jun 3-40 2-41 1-42 0-49 0-12 0-02 0-01

Calls - Miller test

and Danish krone. In London sterling rose % cent to \$1.7190, but fell to

	Eco Central Rates	Carrescy Associats Against Eco May 17	% Change from Central Rate	% Spread vs Weakest Currency	Ohergents Indicator
anth Pesta Alfan Lira Crilog Helan Franc Stch Guilder Mark St Post Insk Krone Hela Krone	133,631, 1538,24 0,696904 42,4032 2,31643 2,85586 0,767417 7,84195 6,89509	127 438 1532.60 0.674351 42 33632 2.31832 2.05776 0.768668 7.86263 6.98081	-4.63 -0.37 -0.37 -0.17 -0.08 -0.09 -0.16 -0.26 -1.24	6.16 1.62 1.62 1.16 1.16 1.15 1.08 0.98	356434-15B

to central rates set by I e for Eco, a positive	us Chrobiso rinu	accide complete	THE MICHIGARY	ICHALITE SURIGIII.	seconds trains
t for Ecu, a posture		HOSE CHICKS.	United delicer allows	OR ISTO PETERS	LANG ABLENCE ON
rcentage difference be	Correct the actual i		afisy valee git to a	errency, 20d the ra	والإرمادة للروايد
rcentage deviation of	the currency's as	arket, rate from its	i Eco central rate		-

May 20	Day's spread	Close	Clase One month		Three mostls	92
s and a contact of the contact of th	60 90 - 61.76 11.325 - 11.375 1.1075 - 11.115 2.9675 - 2.965 557.90 - 240.60 183.45 - 184.45 2201.55 - 2210.50 11.5340 - 11.5870 10.0590 - 10.1020 10.6270 - 10.5900 24.65 - 238.00 20.83 - 20.95	1.7185 - 1.7795 1.9795 - 1.9775 3.3400 - 3.3500 61.05 - 61.15 11.3575 - 11.3675 1.1075 - 1.1065 2.9675 - 2.972 2.96.06 - 26.66 183.45 - 183.75 183.45 - 183.75 10.5775 - 11.5475 10.6775 - 10.6875 237.00 - 238.10 20.85 - 25.025 2.2525 - 2.5125 1.4425 - 1.4435	0.91-0.99cm 0.54-0.44cm 19-13cpm 0.20-0.15cpm 0.20-0.15cpm 0.23-0.25cpm 19-13cpm 23-13-0.5cpm 13-13cpm 13-13cpm 13-13cpm 13-13cpm 13-13cpm 13-13cpm 13-13cpm 0.26-0.21cpm	6.28 2.97 2.91 3.14 2.38 1.90 3.28 2.17 0.54 2.01 2.90 4.11 2.79 4.79 4.71 4.71 4.71 4.71 4.71 4.71 4.71 4.71	2.32-2.25pm 1.25-1.15pm 24-3.25pm 64-3.25pm 0.50-0.45pm 1.3-1.4pm 25-22pm 77-23dis 2-1-3-3 1-3-3-2pm 1-3-2-2-3-2 1-3-2-3-3-2-3-3-3-3-3-3-3-3-3-3-3-3-3-3-	5.36 2.48 2.49 2.49 1.62 2.44 0.25 1.54 2.36 2.36 2.36 2.36 3.09 1.76

			pa.	pacetis :	p.a.
L6915 - 1.7220	1.7185 - 1.7195	0.91-0.89cpm	6.28	2.32-2.29pm	5.3
.5215 - 1.5505	1.5495 - 1.5505		4.65		39
11485 - 1.1585	11470 - 11500		וייייו		-21 -3
		U 54-U.3/CUB	336	73 EV 30 EMP	-20
	A 6075 . A 6128	2 12 2 42000	134	2220427.20015	-30
	1 7275 . 1 7305	n at n assiste	32	1 29-1 314-	-3.0
	151 45 151 25		3 m	705-24564	-57
	107 35 . 107 45		<u>-73</u> 7		-5. -5. -5.
279.50 - 1307.00	1282.00 - 1282 50	6 00-6 50threds	(-585 í		-53
N/A	67125 - 67175		I-458 I	6.40-6.90ds	-3.9
5.8600 - 5.9560	5.8600 · 5.8650	1.67-1.72006	I -3.47 I	4.45-4.55ds	-31
6 2125 - 6.3150	6.2125 - 6.2175	2,60-3.20orefis	-5.60		-5: -L:
138.60 - 138.65	138.15 - 138.25	0.23-0.25yds	-2.06	0.58-0.61ds	-1.7
NJA		3_30-3.75 and b] -3.55		-33
		0.29-0.31cds	-247		-23
. 1675 - 1,1910	1,1900 - 1,1910	0,42-0.40cpm	4.13	1.07-1.04pm	3.
	1,425 - 1,5305 1,4450 - 1,1705 1,4460 - 1,9705 M/A N/A 1,7245 - 1,7610 15130 - 152,60 15130 - 152,60 103,730 - 1307,00 N/A 5,8600 - 5,9560 5,8600 - 130,750 138,00 - 130,85	1545 - 15506 15495 - 15505	15975 15905 15975 15905 0.60-0.45cm 0.30-0.34cm 0.40-0.1500 0.30-0.34cm 0.30-0.34cm 0.40-0.1500 0.30-0.34cm 0.30-0.34c	15975 15905 15975 15905 0.60-0.55cm 4.45 1485 - 1.1505 1.1490 1.1500 0.30-0.34cib -3.34 1486 - 1.1505 1.1490 1.1500 0.30-0.34cib -3.34 1515 - 1.1505 1.1490 1.1505 0.34-0.57cib -3.42 1515 - 1.1505 1.1505 0.5605 3.21 17.30 - 1.5240 1.17.5 1.1505 0.40-0.05cib -3.21 17.30 - 1.5240 1.51.5 1.51.45 96.75cib -3.19 17.30 - 1.1605 1.1505 1.1505 97.75cib -3.19 17.30 - 1.1605 1.1505 1.1505 0.45.00trals -5.19 17.30 - 1.1505 1.1505 1.1505 0.1505 0.1505 18.600 - 5.9540 5.8600 5.8650 1.67.1.72cib -3.47 18.600 - 5.9540 5.8600 5.8650 1.67.1.72cib -3.47 18.600 - 1.1605 1.1605 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 1.1605 18.600 - 1.1605 1.1605 18.600 - 1.1605 1.1605 18.600 - 1.1605 1.1605 18.600 - 1.1605 1.1605 18.600 - 1.1605 1.1605 18.600 - 1.1605 1.1605 18.600 - 1.1605 1.1605 18.600 - 1.1605 1.1605 18.600 - 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.6005 1.1605 1.1605 18.600	1.591.6 1.590.5 1.59

Ecs	Seftzertand] 1,4540 - 1,4815 1,4575 - 1,4585 0,29-0,31x4x -2,47 0,81-0,834x -2,25										
14.py 20	Short term	7 Days notice	()me Morrib	Three Mosths	Six Montis	One Year					
Sterling US Dollar Can, Boilar Can, Boilar Dottok Gelkler Swiss Franc P-Mark French Franc Ligitan Lira Belgian Franc Yet Asian SSTog	94 - 87 84 - 8 83 - 82 91 - 9 12 - 10 813 - 811 73 - 811	113 123 125 125 125 125 125 125 125 125 125 125	11511111111111111111111111111111111111	14-15-14-15-14-15-14-15-15-15-15-15-15-15-15-15-15-15-15-15-	114 889 989 981 981 981 981 981 981 981 981	114 - 114 65 - 652 93 - 837 84 - 763 94 - 94 115 - 114 95 - 115 97 - 97 97 - 94 64 - 64					

Yen	78 - 74 104 - 10 6 - 54	推、推 道 95 6-55	78 - 78 98 - 99 6 - 54	接·接 93 -93 64 - 53	74 - 78 95 - 95 64 - 64	78 - 71 97 - 61
Long term Eurogollars 8,3-8,3 per cent som	t teo years 7% inai. Short te	-7 % percent; t no rates are ca	hree years 77, -7 If for US Dollar	'4, per cent; four	r years 8½-8 pe ! Yea; others, to	Cent; five year to days' notice
	EXC	HANGE	CROS	S RATE	S	-

			EXC	HAN	GE C	ROS	S R	ATES	<u> </u>		
May.20	£	\$	BIK	Yen	F Fr.	S Fr.	H FI.	Lira	cs	B Fr.	ECU
£	1	1.719	2,970	237.5	10.08	2.508	3.345	2204	1.977	61.10	1.443
\$	0.582	1	1.728	138,2	5.864	1.459	1.946	1282	1.150	35.54	0.839
DM	0.337	0.579	1	79.97	3.394	0.844	1.126	742.1	0.666	20.57	0.486
YEN	4.211	7.238	12.51	1000.	42.44	10.56	14.08	9280	8.324	257.3	6.076
F Fr.	0.992	1.705	2.946	235.6	10.	2.488	3.318	2187	1.961	60.62	1.432
S Fr.	0.399	0.685	1,184	94.70	4.019	1	1.334	878.8	0.788	24.36	0.575
HFL.	0.299	0.514	0.888	71.00	3,013	0.750	1	658.9	0.591	18.27	0.431
Цn	0.454	0.780	1.348	107.8	4.574	1. 13 8	1.518	1000.	0.897	27.72	0.655
CS	0.506	0.869	1.502	120.1	5.099	1.269	1.692	1115	1	30.91	0.730
8 Fr.	1.637	2.813	4.861	388.7	16.50	4.105	5.475	3607	3.236	100.	2.362
FCU	FPA 0	1 191	2.058	164 6	A 985	1 739	2 319	1527	1 370	42 14	7

Yes per 1,000: French Fr. per 10: Lira per 1,000: Belglan Fr. per 100.

London rates ease

WEAK UK retail sales encouraged an easing of whole-sale interest rates in London yesterday. April sales fell 3.5 per cent, after rising 3.6 per cent in March. A decline was expected, but the figure was weaker than forecasts of around 2.8 per cent.

Three-month sterling interbank fell to 11%-11% from 1111-1116 per cent, while 12-month money was unchanged 11%-

11% per cent.
Short sterling futures rose to the day's high on Liffe after the retail sales news,

UK clearing bank base lending rate 12 per cent from April 12, 1991.

finishing on a firm note. June delivery opened firm at 88.71 and touched a peak of 88.78, before closing at 88.72 compared with 88.65

previously.

Overnight interbank was firm at around 121/2 per cent as credit remained in short supply on the London money market. The Bank of England initially forecast a shortage of £800m, but revised this to £750m at noon and to £700m in the afternoon. Total assistance

of £629m was provided.

An early round of help was offered and at that time the authorities bought £150m bank bills outright in band 1 at 11%

per cent.

Before lunch another £203m bank bills were purchased in band 1 at 11% per cent. In the afternoon £201m bills were bought, by way of £19m Treasury bills in band 1 at 11% per cent and £122m bank bills. per cent and £182m bank bills in band 1 at 11% per cent. Late assistance of around £75m was also provided.

Bills maturing in official hands, repayment of late assistance and a take-up of Treasury bills drained £1,016m, with exchequer transactions absorbing £400m and bank balances below target £5m. These outweighed a fall in the note circulation adding £610m

to liquidity.
In Stockholm interest rates fell sharply on the first day of trading since Sweden liked the krona to the European currency unit, taking it out of a basket dominated by the dollar.

Six-month Treasury bills declined to 11.35 from 11.97 per cent and 10-year government bonds fell to 10.45 from 10.95 per cent. Financial markets in Stockholm were officially closed for the Whitsun holiday. but the Swedish Central Bank opened its dealing room to smooth moves towards a more

European linked currency. According to dealers linking the krona to the Ecu has effectively ruled out a devaluation, encouraging yesterday's downward move in

FT LONDON INTERBANK FIXING (11.00 a.m. May-208 3 months US dollars offer 6% The fixing rates are the artitionests excess rounded to the numerat one-statement, of the hid and offered rates for \$10m quotest to the market by five reference hasts at 1.000 a.m. each working day. The lands are fixing! Westerbester Ravia. Ravia of Travia. Desiration Ravia R

		NUNE	- RAI			
NEW YORK			Treasur	Bills and	Bonds	
(Lunchtime)		Ope month Two receth	·	5.17 Three	70F	7.15
Prime rate Broker loan rate Fed hands Fed funds at Intervention	. 8 5	Three mooth Six mooth One year Two year		5.83 Seven 6.14 10-m	1964	7.74 7.97 8.09
May 20	O veralgi st.	Çaç Masth	Two Months	Tiarte Months	Str Months	Lombard Interestio
Frankfurt Parks Parks Assistriam Tokyo Miliam Brissels Outofin	8.60-8.70 92-92 73-84 8.88-9.00 73-73 105-11 8.88-9.00 108-105	8.75-8.90 9-9-1; 7-1; 8-9 7-1; 8-97-9.05 7-1; 11-1; 11-1; 11-1; 11-1; 10-1; 10-1;	8.85-9.00 9-9-1 10-3-10-5	8.90-9.05 9-91 8-81 9.00-9.08 8-81 1112-1114 94-92 1014-1012	9.00-9.15 94-92 10%-10%	9.00 9.25 - - - - - -

LONDON MONEY RATES										
May 20	Overnight	7 days notice	One Month	Three Months	Six Months	One Year				
sterbank Offer derbank Bid derbank Bid derbank Bid derbank Bid scela Anthority Dees coal Anthority Bonds iscount Mirt Dees onghany Deposits inance House Deposits reasury Bills (Buy) ank Bills (Bey) ank Bills (Bey) DR Linked Dep. Bid OU Linked Dep. Bid OU Linked Dep. Bid CU Linked Dep. Bid CU Linked Dep. Bid CU Linked Dep. Bid	131/2 111/2 121/2 - - - -	12½ 12½ 12½ 12¼	12 114 1115 112 112 1134 1134 175 74 75 94	111111 - 77111111 - 5777794	11111111111111111111111111111111111111	1114 1114 1114 1114 1114 1114 1114 111				

Tressury Bills (seil); one-month 11½ per cent; three months 10% per cent; six no cent; Bank Bills (seil); one-month 11½ per cent; three months 11½ per cent; Deposit Rate 29, 1991, Sci p. C., Schemes 11½ per cent; Deposit Rate 29, 1991 to June 25, 1991, Sci p. C., Schemes 11½ per cent; Deposit Rate 29, 1991 to June 25, 1991, Sci days florid Finance Houses seven days notice days florid Finance Houses Base Rate 12½ from Mays. 1, 1991, Bank Deposit Rate seven days notice 4 per cent. Certificates of Tax Deposit Certes 61; Deposit Edit beld under one month 8½ per cent; centre-three months 11 per cent; three-six months shall be cent; three-six months 115 per cent; three-six months shall be cent.

FINANCIAL FUTURES AND OPTIONS

Stiements Sep 0-24 0-37 0-55 1-15 1-46 2-18 2-61 3-46	LIFFE IX	TREASURY NO.	FETTURES	LEFFE RESIDE FUTURES OFTENS \$4250,000 points of 100%						
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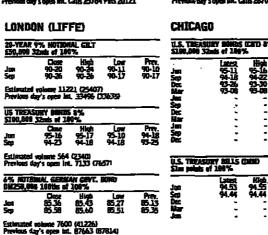
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SWESS FRANC (DATE) SFr 125,000 S per SFr 95 87 96 20 PHELADELPHIA SE C/S OPTIME E31,250 (code per 51)

d volume 332 (347) day's open lat. 3624

Est. Vol. (inc. figs. not stone) 20869 (54075) Previous day's open int., 125335 (125671)

Est., Vol. (Jac. flys., not shown) 2376 (1859) Previous tay's open int., 36885 (37491)

Estimated volume 5327 (22284) Previous 42y's open int. 117251 (115300)

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Estimated volume 2404 (4965) Previous day's open left, 27369 (27325)

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Data source: Chief Executives in Europe 1990

FT SURVEYS

MONEY MARKET FUNDS

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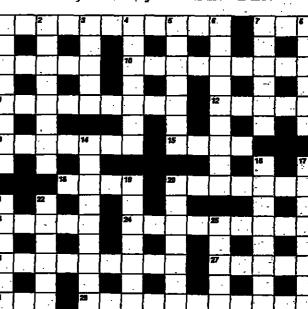
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CROSSWORD

No.7,548 Set by HIGHLANDER



1 Family get-together for sporting fixture (4,7) 7 Fossil fuel fall-back (8)

9 Correct procedure is to bore a hole (5) 10 Graduates need replacement

10 Graduates need replacement for sculpture (3-6) 11 Board fighting against ori-entsi dishes perhaps (9) 12 Northern people and not south-eastern (5) 13 Weish resort, green and utterly enchanting initially Single combat: sounds like double (4)

18 Progress which is uneven not firm (4) 20 Jazz enthusiast's shout of

derision (7)
28 Concerned with hearing spoken sound (5)
24 Bad-tempered with cash, according to verbal evidence (9) 26 Pay attention: one ballot

ias ten backing the masses 27 Å long university farewell

(5)
28 First person for auditor to look at carefully (3)
29 Cook made stew, we inserted old fragrant plant (11) DOWN

1 Colour for stop-go songbird 2 Grumble that Crosby is

cheating (8)
3 Highlander takes shelter from noisy brawl (6)

5 Sent aid for distribution in lieu (7) 6 Judo enthusiast in town's undeveloped zone (5,4).
7 Gland swelling? Leave it to

engineers (6) 8 Calm during periods of ten-Sion (6)

sion (6)

14 Restaurant where suspects are interrogated? (9)

16 Coma is broken a great deal by medicinal plant (8)

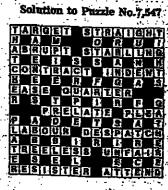
17 Lead clubs possibly have recreational gear (8)

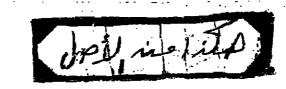
19 Bonehead – all-round (7)

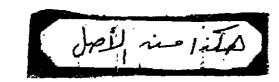
20 Gaming house introduces second card game (7)

21 Cattle food that's providing iron (6)

iron (6)
22 Give commendation to piano recruit (6)
25 Religious leaders beginning in mosques and Muslim schools (5)







WORLD STOCK MARKETS										
AUSTRIA May 17 Sch. + or										
Apstrian Airlines 3,240ml	Bongrais	Colonia Vers	A B is Acres Holding 38.30 ACF Holding 41.50	Electrolax 8 Free 242 Ericssos 8 Free 179a Essette 8 Free 146	Sales Street High Loss Close Chag	Spine Stock High Los Close Cheg	Sales Stack High Love Close Ching	Sales Stock High Low Class Chap		
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Banys Pharm 1,220 -30 Bridgestone 1,030 -40 Brother Ind	Karo Cerp	Nippon Road	10E100							
CSK 5,000 -70 Calph Food 1110 Calph Food 5,5 -5 Calone 5,5 -5 Canon 1,490 -40 Canon Sales 3,900 Casto Computer 1,290 -10	Kein Teite E Rw. 965 +7 Klikhoman 1,080 -20 Cinder 2,880 +40 Klahi Hisn Railwer B40 -10	### ### ### ### ### ### ### ### ### ##	Tokyo Dome	Westfield Trust 2.03 -0.02 Westpac 4.58 -0.02		TOUTO Here	Astro Otosta			
Cascos	Cincian 2,880 +40 Cincian 840 -10 Cincian 840 -10 Cincian 1,520 -10 Kote Start - 535 -4 Kote Start - 2,640 Kotesal Electric 4,120 -10	Nippon Sulsan 600 45	Tokyo Rope 1,180 -20 Tokyo Steel 3,580 +10 Tokyo Style 1,530 Tokyo Uga 1,140 -20	Woodside Pet 3.30			Active Stocks May 1991 Stocks Closing Change			
Okyota Fire & B	Korkarisu 3,400 Korrarisu 860 -3 Korkar 1,010 Koro Seiko Ca 943 +10 Kubota Carp 747 -5	Nippon Yakin 675 -25 Nippon Yakin 603 -2 Nippon Zeon 615 48 Nippon Zeon 615 48 Nippon Zeon 617 48 Nippon Zeon 618 48 Nippon Zeon 618 48 Nippon Zeon 619 48 Nippon Zeon	Tokye Land 691 -11 Token Corp 1,650 -10 Toppan Printing 1,480	May 26 H.K.\$ + 87 - Amoy Props		Traded Prices on day Japan Steel Works	Yokohama Rubber 2.1 819 -6 Cierion 200 20 1,060 -10			
Dalcel Chemical 741 -16	Kamagai-Ganl 816 -15 Kamial Chemical 975 -55 Karabo ind 1,070 -10	Nissas Motor 754 422 Nissas Motor 759 422 Nissel Sangyo 1, 900 -10 Nisshin Floor 1,440 +10 Nisshin Oil 1,050 +20	Toshina Elect	Amoy Props 4.65 +0.05 Bank Esst Asia 16.70 +0.50 Cythay Pacific 8.75ai +0.20 Cheung Koog 19.20ai +0.30 China Light 21.60ai +0.10 China Mistor 25.40 +0.20		Hitselfi	Mitsubieki Elec- tric			
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Felisawa Pharm 1,800 -40 Felika Tearless 2,400 -20 Felika 1,090 -20 Ferukawa Elect 807 -11	Minoita Camera 664 -6 Missee Horie 1,730 -10 Minishi Bk 2,780 -10 Minishi Corp 1,220 -30 Minishi Ele: 727 -13	Ryobi 675 -13	Yekohasia didiber 819 —6 Yemiuri Lead 1,790 —20 Yeshitemi Pherm 1,470 —10	Swire Pacific A 20.10al 40.10			BERNE, FRIBOURG and the co	Villeneuve, GENEVA,		
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WALLONIA

May 30 1991.

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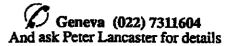
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FINANCIAL TIMES

COTTERM SSWORD

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INTERNATIONAL COMPANIES AND FINANCE

British Sugar helps ABF increase profit to £317m

By Clare Pearson in London

ASSOCIATED British Foods, £33.2m. Group turnover was the milling and baking group, beat analysts' forecasts yester-day with the announcement of pre-tax profits up from 5283.8m (\$487m) to 5317.4m in the 12 months to the end of March.
The shares gained 10p to

510p on the announcement by the group, which in January paid £880m to fulfil a long held ambition to buy British Sugar.

The stock market was pleased to see a solid first-time contribution from the new sub-

sidiary, as well as a strong rise in income from the company's substantial cash resources. The company said the contri-bution from British Sugar had exceeded financing costs, accounting for the bulk of

£3.13bn (£2.77bn). Earnings per share rose to 46.9p (41.9p). The company's year-end has been changed to September. At

8.5p (7.7p), the second interim dividend announced yesterday is in line with a forecast made when British Sugar was acquired. That makes 12.2p (11p) for the 12 months.

Net of interest payable. interest income rose to £128.5m (£124.5m). ABF said it had posi-tioned itself favourably to take advantage of recent strength in the money and gilt markets.

ABF had chosen to finance

part of the consideration for British Sugar initially from borrowings, leaving more funds available to benefit from earnings from new subsidiaries rises in the fixed interest mar-which in all amounted to kets due to interest rate cuts. Within a trading surplus of £188.9m (£159.3m), the UK manufacturing division put in £110.1m. However, ABF said there would have been a £12.7m decrease in profits from these operations if the British Sugar contribution had not

been included. Mr Garry Weston, chairman, said the division, one of Britain's two largest bakers as well as the manufacturer of Ryvita and Burton's biscuits and packer of Twinings tea, had been hit by increasing competitiveness in the UK

marketplace.
It was also affected by £12m of closure costs, associated with the shutdown of three big bakeries and other redundancies, and rising wheat prices. Lex, Page 18

First reverse at JVC in four years

By Emiko Terazono in Tokyo

JVC, the Japanese consumer electronics company, yesterday reported a 27.1 per cent drop to Y26.3bn (\$189.20m) in consolidated pre-tax profits for the year to March 1991.

JVC (Victor Company of Japan), which posted its first pre-tax profit fall in four years, blamed cuts in product prices due to intensified competition, increases in research and development and advertising expenses for the decline.

Two buy 60%

stake in Fundia

by 13 per cent and information related equipment rose by 20 per cent. After tax profits fell 13.1 per cent to Y16bn.

JVC said that pre-tax profits fell by 8.6 per cent to Y22.0bn as sales rose 3.3 per cent to Y638.7bn.

RAUTARUUKKI, the Finnish

state-owned steel company, and Norsk Jern, a Norwegian-steel holding company, have between them acquired a 60 per cent stake in Fundia, a Swedish steel reinforcing bars group, writes Enrique Tessieri in Helsinki The purchase price is put at around SKr330m (\$53.4m). Rautaruukki and Norsk Jern hope to purchase the remaining 40 per cent of Fundia which had

sales of SKr2.6bn in 1990. The acquisition will help to strengthen Rantarunkki's position in long steel products, including reinforcing bars and

Overall sales increased 6.9 per cent to Y926.2bn thanks to a 6 per cent rise in its video and related equipment interests. Television sales increased

On a non-consolidated basis,

Export sales, which account for 55 per cent of total sales of the parent company, rose by 15 per cent to Y353.3bn. Video and related equipment rose 2 per cent and information related equipment increased 21 per cent, but sales in audio equip-ment fell 4 per cent. For the year ending March

1992, the parent company projects a 0.4 per cent drop in pretax profits to Y22bn on an 8 per cent rise in sales to Y690bn.

French glove-maker in breathing apparatus deal

By George Graham in Paris

COMASEC International, the French company which is European leader in the production of protective gloves, has bought Interspiro, a manufacturer of breathing apparatus, from Sweden's Nobel group. No price was announced for the deal, but Comasec is under-

stood to have paid over FFr100m (\$17.21m) for Inter-spiro, which had sales of SKr172m (\$28m) last year. The acquisition will propel Comasec close to the two world leaders in breathing apparatus, tripling its presence in the

European market. Interspire which specialises in fire-fighting and pollution control masks, had 12 per cent of the European market, to Coma-

sec's 6 per cent. In North America, Comasec said its share of the breathing apparatus market would rise to 25 per cent with the addition of Interspiro's 7 per cent market share. Comasec, which is owned by the Berend family, had sales of FFr552m last year and ranks second in the world in the manufacture of industrial protective gloves.

Bond Corp shareholders agree to debt swap

By Kevin Brown in Sydney

BOND Corporation share-holders yesterday approved a proposed debt-for-equity swap which will leave Mr Alan Bond, the former chairman. with less than 6 per cent of the

group's shares. Mr Peter Lucas, who replaced Mr Bond as chairman last year, said a scheme of arrangement providing for the arrangement providing for the swap was approved by holders of just over 75 per cent of the group's stock at a shareholders' meeting in Perth.

The vote follows approval from Swiss-franc bondholders and Thursday and

in Geneva on Thursday, and clears the way for a vote by other European bondholders within two weeks.

The scheme was also approved yesterday by Austra-lian Consolidated Investments, formerly Bell Resources, which remains a substantial

creditor. However, a meeting of par-

However, a meeting of par-tially-secured creditors, which must also approve the scheme, was adjourned after objections by American Express Bank. A further meeting will be held. The scheme is dependent on approval by the Western Aus-tralian Supreme Court, which will hear an application from Bond Corporation after all Bond Corporation after all creditors and shareholders have voted.

Mr Lucas said Mr Bond voted in favour of the recon-struction through Dallhold, one of his privately-owned family companies, which owns 54 per cent of Bond Corpora-

Several obstacles in the way of the scheme have been over-come, including a decision by the liquidator of J.N. Taylor Holdings, a Bond Corp subsidiary, to withdraw a wind-ing-up action against the

However, Bond Corp lost a £150m (US\$259.50m) damages claim on Friday against its for-mer partners in British Satel-lite Broadcasting Holdings, which has since merged with Mr Rupert Murdoch's Sky Television to form British Sky Broadcasting.

Bond Corp directors say the scheme of arrangement could return between 20 and 25 cents in the dollar to creditors.

West Germans go for eastern gold

Leslie Colitt examines the stampede to pick up cross-border assets

eastern German indus-trial companies are being snapped up by western preda-tors with near gold-rush

ferocity.

A case in point is the process plant sector where in recent months Asea Brown Boveri (ABB), the Swedish-Swiss electrical engineering group, has been an eager buyer of eastern German assets. Last March, ABB's German

subsidiary in Mannheim bought Bergmann-Borsig, the leading manufacturer of power station installations, from the Treuhand privatisation agency.
The deal was completed despite cancellation of a large order for heat exchangers when the Soviet-designed nuclear plant at Stendal was

scrapped for safety reasons. Automatisierungsanlagen Cottbus, which ABB picked up a month earlier, is reeling from a drop in domestic orders for its process automation equip-ment. Mr Joachim Schulze, managing director of the Cott-bus company, is convinced that its future would have been dire if ABB had not appeared

on the scene.
"The Treuhand would not have given us further financ-ing," he says as he shows visi-tors round the company's neardeserted production plants. The Cottbus group has been hit especially by the collapse of orders from former Comecon

In better financial shape is Energiebau Dresden, eastern

ESPITE the thinness of their order books, some eastern German indus-bought by ABB late last year. Energiebau Dresden makes a profit: ABB's other recent eastern German acquisitions are expected to remain in the red until 1993.

However, Mr Percy Barne-vik, head of ABB, has not made this decisive push into eastern Germany on the back of current new order-flows, although there are signs that the decline in order intake has begun to bottom out. He is preparing the company for an expected wave of public spending to improve infrastructure in the five new east German Länder, or states.

According to Mr Eberhard von Koerber, the chairman of ABB Germany, German electricity suppliers alone plan to spend close to DM40bn (\$23.30bn) on new power generation facilities in east Germany by 1995.

Mr von Koerber said ABB and other companies investing in eastern Germany expected a certain amount of preferential treatment" for local suppliers from public procurement bod-

ABB has already obtained a letter of intent to build a new power station at Rostock for more than DM100m which is to be completed in 1995. The work is to be divided between ABB Bergmann-Borsig in east Ber-lin and ABB in Mannheim.

At the same time, ABB has won a DM20m contract to plan a flue-gas desulphurisation sys-tem for two 500-megawatt units of the Boxberg power station,

Percy Barnevik: preparing for public spending wave the largest lignite-fuelled electricity plant in Europe and an immense air polluter. Total

work involves the retrofitting of the two units, installation of desulphurisation scrubbers and new electrical filters.

ABB hopes to obtain a sizeable share of the final DM1bn contract despite flerce competi-tion, notably from Siemens, which is also investing heavily in eastern Germany.

ABB expects to complete negotiations shortly with the Treuhand for the takeover of two transformer factories in

Mr Achim Lennertz, the Treuhand negotiator with ABB, said the fact that negotiations were undertaken by ABB's German unit made for smoother handling from the start. Neither he nor ABB, however, would disclose how much ABB paid for the

eastern German acquisitions. Mr Lennertz said that while the price paid was important, so was the amount of money a western bidder was prepared to invest in the companies as well as how many jobs would be

Mr Wolf Schöde, a Treuhand spokesman, said companies were often sold for a "negative price" in order to allow the investor group to create a tax-paying company. He com-plained that companies considering investments in eastern Germany were often overly cautious and reluctant to sur-

mount hurdles or take risks.

Next year, the telephones will be working and other problems will have vanished. but by then the best companies will have been privatised," he

BB plans to employ 10,000 people in eastern Germany by next year - compared with 35,000 in western Germany - although personnel is being reduced in all its eastern companies. Bergmann-Borsig, which had 3,500 employees at the end of March will release more than 1,000 next month. Retraining has been introduced and social plans implemented for those

Average wages are 60 per cent below those in western Germany, but will reach west-ern German levels by April 1994 in agreement with the IG Metall union. Significantly, the 280 apprentices are being kept on although not all will qualify for jobs with the company.

British Steel chief executive quits

By Charles Leadbeater, Industrial Editor

BRITISH STEEL'S chief executive, Mr Martin Llowarch, last night unexpectedly announced his resignation. Mr Llowarch's departure will threaten the company's plans to organise an orderly succession to Sir Robert Scholey, aged 70, the chairman, who completes his contract at the

end of this year.
Although the succession had not been discussed on the board, it was widely assumed that Mr Llowarch, 55, was being groomed for the post. Mr Brian Moffat, 52, the finance director, will now take over as chief executive on July next meeting of the board.

Mr Llowarch's resignation comes as British Steel is responding to the most savage downturn in steel demand since the recession of 1980-81. The company denied that his departure reflected a rift between Mr Llowarch and Sir Robert over strategy.

The resignation will put Sir Robert under pressure to delay his departure. The company will almost certainly have to consider an outsider as chairman. Plans for the succession will be the priority at the

Mr Llowarch told Sir Robert last week that he wanted to retire to pursue other interests. Although several directors con-tacted him to explore whether there was any grounds on

which he might be persuaded to stay, Mr Llowarch remained The past year has been particularly tough at British Steel as profits have fallen in the wake of the recession. Mr Llowarch has been responsible for the extensive cost cutting at the company which has led to thousands of job losses.

Ares-Serono sales up by 26% to \$176m

ARES-SERONO. Swiss-based pharmaceutical company, increased first-quar-ter sales by 26 per cent to \$176.4m, writes William Dull-force in Geneva.

Excluding currency fluctua-tions, growth in turnover was 17 per cent,

Operating income grew by 18 per cent to \$32.8m, but net earnings rose only 3.3 per cent to \$13.5m, or \$24.76 a share. The group, which reports in US dollars and pays its divi-dend in Swiss francs, is paying an unchanged dividend of SFr25 per bearer share and SFr10 per registered share on the 1990 account.

May 17, 1991



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Amsterdam, The Netherlands

DM 300,000,000

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Offering price: 101% %

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Bayerische Hypotheken-

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Bank of Japan (Deutschland)

Benque Nationale de Paris S.A. & Co. (Deutschland) OHG

BHF-Bank

und Wechsel-Bank **Deutsche Girozentrale**

Deutsche Kommunalbank

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Girozentrale

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New Issue

This announcement appears as a matter of record only.

May 21, 1991



DM 2 500 000 000,-Floating Rate Notes of 1991/1993 VI

DM 2 500 000 000,-Floating Rate Notes of 1991/1996 VII

Bayerische Vereinsbank

Bayerische Hypotheken- und Wechsel-Bank Aktiengesellschaft

Commerzbank Aktiengesellschaft

Berliner Bank

Deutsche Bank Aktiengesellschaft

CSFB-Effectenbank

Bayerische Landesbank Girozentrale Dresdner Bank

Aktiengesellschaft

BHF-BANK Schweizerische Bankgesellschaft

Industriekreditbank AG Deutsche Industriebank Schweizerischer Bankverein (Deutschland) AG

Baden-Württembergische Bank Aktiengesellschaft

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Bank Brussel Lambert N.V.

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Aktiengesellschaft Nikko Bank (Deutschland) GmbH

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Daiwa Europe (Deutschland) GmbH

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DSL Bank

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Bonds lift equities in light trading

Wall Street

AN RARLY rise in bond values helped boost sentiment in the stock market yesterday morning, but with investors still adopting a wait-and-see approach to equities, gains were relatively modest, writes Putrick Harverson in New York. By 1.30 pm the Dow Jones Industrial Average was up 7.38 at 2,894.01. The other indices were little changed at midsession, with the more broadly based Standard & Poor's 500 up just 0.74 at 378.13 at 1 pm, and the Nasdaq composite of overthe counter stocks down 0.5 at

Turnover on the New York SE was very light at 62.5m

bering advancing stocks by 724 to 643 testified to the generally weak tone of the market.

The opening advance came in the wake of higher bond prices, which reacted favourably to reports of comments from Mr Alan Greenspan. chairman of the Federal Reserve, hinting at further interest rate cuts if the economy did not soon show signs of recovering from its recession. However, the lack of volume confirmed that investors were staying away from equities until they could see a significant improvement in the eco-

The big technology stocks, which were undermined by Compaq's profit warning last week, put in a mixed perfor-

fered from heavy selling after its forecast of weak profits, bounced back with a rise of \$% to \$36%. IBM, however, remained subdued, dropping \$% to \$103%, while Digital Equipment steadled at \$63 and Hewlett-Packard, which announced better-than-expected earnings on Wednesday,

rose \$% to \$48%. Dow Chemical rose \$1% to \$53 after two securities houses, First Boston and Smith, Barney, upgraded their investment ratings on the stock, citing expected improvements in the company's earnings ability. K-Mart, the giant retailing group, jumped \$1% to \$41% after reporting a rise in first

quarter earnings to 53 cents a share, up from 50 cents a share

a year earlier, in spite of the nationwide slowdown in consomer spending. Ameritrust, the mid-west

commercial banking group, climbed \$2% to \$19% after National City Corp, a rival regional bank confirmed that it had offered to negotiate a \$889m stock swap acquisition of Ameritrust. National City shares fell \$1 to \$35 on the

LaserMaster Technologies tumbled \$1 to \$5 after a local Minneapolis newspaper high-lighted the printing product maker's large inventory levels and dwindling cash reserves. Toronto was shut yesterday for Victoria Day.

The weekly review of the world's stock markets will

Volume shrinks to four-month low

Tokyo

SHARE PRICES declined across the board as thin vol-ume accentuated the effect of selling by arbitrageurs and

investment trusts, writes Emiko Terazono in Tokyo. The Nikkei average lost 178.91 to 25.523.03, while turnover shrank from 260m shares to 170m, failing below 200m for the first time since January 14. The Nikkei set a day's high of 25,738.73 at the opening and a low of 25,330.70 in the

Falls outnumbered advances by 766 to 183, with 158 issues unchanged. The Topix index of all first section stocks shed 14.62 to 1,938.82, and in London trading the ISE/Nikkel 50 index eased 4.67 to 1,437.97.

High-technology issues con-tinued to weaken. Sony receded Y100 to Y5.890, moving below the Y6,000 support level and TDK slipped Y90 to Y5,140. Canon ended Y40 down at Y1.490 on a lower than expected profits forecast for the cur-

rent year. Matsushita Refrigeration fell 190 to Y1,070 on prospects of lower pre-tax profits, Matsushita Seiko lost Y41 to Y949 and Matsushita-Kotobuki Electronics shed Y60 to Y2,000.

Speculative shares retreated on rumours of selling by specu-lative groups. Tobishima, the contractor, dropped Y120 to Y1,070, Tokai Kanko, the hotel chain, declined Y97 to Y601 and Nihon Hohyaku, an agrochemical company, dipped Y150 to Y2,100.

Japan Steel Works, the most active issue of the day, weak-ened Y15 to Y765 after reach-ing a year's high of Y785 in attracted early demand on as the Hang Seng index passed hopes that capital investment the 3,900 level to close at attracted early demand on as the Hang Seng index passed A\$1.28 after 6.5m shares, hopes that capital investment by the oil refiners would help 3,917.09, up 34.25 or 0.9 per the company's issued capital,

its engineering plant business. Yamaha retreated Y80 to Y1,670 after pre-tax profits for the current year were revised to Y8bn from Y11bn previ-ouslys. Bridgestone, the tyre maker, lost Y40 to Y1,030 on last week's news that it would inject more capital into Fire-stone, its US subsidiary. Sumitomo Metal Mining

improved Y10 to Y1,310 on rumours that it had discovered gold deposit. Speculation about an imminent warrant bond issue added to the stock's

The food sector was one of the few bright spots of the day; investors considered some issues to be cheap. Toyojozo, the alcoholic drinks company, put on Y3 to Y751, Nisshin Oil gained Y20 to Y1,050 and Asahi reweries climbed Y20 to

In Osaka, the OSE average dipped 108.25 to 28,217.70 on low volume of 8.8m shares, down from 14.9m. Nintendo the video game maker, fell Y600 to Y14,000 on small-lot cerned about the stock's high margin positions.

Tatsuta Electric Wire & Cable rose Y60 to Y1,210 on expectations of orders from electric power companies and Japan Railway. Reports that Tatsuta plans to advance into electronics with its copper bonding wires and paste for electromagnetic wave shielding also attracted small-lot buying

Roundup

ACTIVE TRADING lifted Hong Kong nearer to its all-time high yesterday, but most Pacific Rim markets were quiet.
HONG KONG reached
another post-1987 crash peak,

33 points of its record high. Turnover was beavy at HK\$1.88bn, up from HK\$1.83bn. Hopes that the new airport would now go ahead fuelled gains, with the property sector in the lead. Cheung Kong climbed 30 cents to HK\$19.20, New World Development added 50 cents at HK\$11.20 and Hongkong Land, which topped the most active list, gained 40

SINGAPORE rose after some encouraging economic figures, but ended below the day's high on profit-taking. The Straits Times Industrial index firmed 8.46 to 1,522.21 but volume fell to 32m shares from 42m. Relief that Singapore Air-

lines' results were no worse than expected helped its for-eign shares to rise 70 cents to S\$19.60 and its local shares to gain 30 cents to S\$13.40. AUSTRALIA was steady The All Ordinaries index eases 0.1 to 1,531.6 in thin turnover of

A\$392m, down from A\$719m. Adsteam and two of its asso Australian Stock Exchange. The stocks had been suspended since May 2, when a corporate restructuring plan collapsed.
Adsteam dropped 3 cents to 9 cents and David Jones fell 13 cents to 30 cents, but Tooth and Co rose 4 cents to 38 cents.
Bethropped to 38 cents. Rothmans, the tobacco com-pany, appreciated 15 cents to A\$12.90 after announcing its annual group operating profit. Coal and Allied, subject of a hostile takeover offer from CRA, shed 4 cents to A\$8.54. CRA said it held more than 30

per cent of the coal producer as the bid ended. ANZ, with interim profits due this week, fell 8 cents to A\$3.82. QTC rose a cent to

were crossed at A\$1.25 each. NEW ZEALAND advanced in quiet trading on hopes of further interest rate cuts. The Barclays index gained 15.54 or 1 per cent to 1,542.66 in turnover of NZ\$12.8m, down from NZ\$13.9m. Fletcher Challenge inched up a cent to N2\$3.83.

TAIWAN was lifted by the financial sector on news that

the finance ministry had com-pleted its sales of shares in three commercial banks. The weighted index rose 127.81 or 21 per cent to 6,110.07. Turnover was a moderate T\$59.3bn,

up from T\$5L3bn.
MANILA was boosted by strong first quarter results and ignored weekend bombings. Investors saw the bright side of the postponement of the public offering of Ayala Land, which had depressed the market on friday, as the delay could improve liquidity. The composite index rallied 28.31 to 1.144.86 but turnover thinned to 161m peacs from 189m.

SEOUL came under pressure from tight liquidity and lingering political uncertainty. The composite index shed 7.67 to 628.71 on turnover of Won84.7bn, against Won82bn. The market was also concerned by news that customer deposits with securities houses had fallen to their lowest level

ance April 20, 1988. BOMBAY eased as India went to the polls for the second time in 18 months. The BSE index receded 13.44 to 1,284.25.

SOUTH AFRICA

JOHANNESBURG was steady in featureless trading. The all-gold index closed up 3 at 1,137 as world prices stayed at \$354. The industrial index was down index was also barely changed. at 3,032 versus 3,035.

Revision of world indices reflects changes over the past four years

Adrian Dicks of FT Statistics explains the review of the Financial Times-Actuaries World Indices, and the changes that result

Indices, which cele-brated their fourth birthday last March, were set up a few months before the start of a period of turbulence in the world's financial markets. The aim of the Financial Times and its partners in the venture - Goldman Sachs, County NatWest Wood Mack-enzie and the Institute and Faculty of Actuaries - was

• The World Indices were to provide a set of yardsticks for the world's principal stock

markets.

They were to offer an independent solution to investors wishing to peg the performance of their portfolios to the changing relative values of groups of markets.

Since then, the World Indices have gained wide acceptance among investors and analysts of the financial markets, and especially among

kets, and especially among portfolio managers running international index-tracking

times.

With all these users in mind, the World Index Panel decided last year to carry out a detailed review of the FT-AWI rules as they affect each of the 24 markets currently included, and to reflect the changes of the past

The aim was also to take advantage of the improvement in price data which has followed the introduction of continuous trading to new mar-kets, and of the greater volume of corporate financial disclo-

Within each market, researchers have checked every company to make sure that the indices continue to follow their original guidelines -that constituent stocks should be readily tradeable and freely accessible to international investors, that the selection for each country should reflect the sectoral distribution of the local market, and that cover-age should be as broad and consistent as possible. Reviewing the rules has cre-ated some difficult issues.

Some countries, for example, have a distressing tendency to put on weight without trying. There must be no bias in the

representation in the World matically, and plenty of shares available to investors indices of different countries' well-known names are to be was large enough to pass the Indices of different countries' markets; all should be repre-sented in the same proportion to the equity available. The panel's objective is to cover in each country between 82 and

90 per cent of the "investible universe" - that is, the total value of the stocks available to international investors in that Yet in Finland, coverage had

rept up to 98 per cent of the investible universe. The expla-

Not effect of changes to the FT-Actuaries World Indices Current Index Revised Index Net Change % of No. of % at No. of % of No. of forld Secs. World Secs. World Secs. Denmark France Hong Kong haly

New Zealand

United Kingdo United States

Norway

nation was a simple one: the value of all the shares avail-able to non-Finnish investors is only 11 per cent of the total market - an extreme case, although neighbouring Sweden and Norway have kept foreigners down to 29 and 41 per cent

respectively.

The UK, at the other extreme, is the country with the least restrictions on portfolio investment by non-nationals, with 94.3 per cent of stocks available. Here the World Indi-ces were covering 90 per cent. The remedy was clear. The indices had to shed weight dra-

Other countries were seriously underweight, in Malaysiz, changes to foreign invest-ment rules are making far more stock available to the external investment commu-

The extensive changes to the Mexico list also reflect a new local environment; foreigners can now buy nearly all securities through the Natinsa

Trust depositary scheme.

in many countries, the "screens" for size, free float

and marketability thinned out

the candidates for inclusion when applied to individual

companies. Normally, stocks

where less than 25 per cent is available to the investment

marketplace would be excluded. Yet there were com-panies so large in the context

of their local market that the

rule seemed perverse: Hong

Kong Telecom was one promi-nent example. The panel decided to include these stocks

where the capitalisation of the

was large enough to past the minimum size test. European countries remain ineligible because of huge,

> maintain a balance between sectors comparable to that of the local market. In a few countries it was hard to reflect the changing industrial complexion. South Africa's economy may be fat less dependent on gold than in the past, yet the structure of the Johannesburg stock mar-ket still looks much as it did 20

Large companies in several

long-term holdings by govern-ments or bodies under their control. Relatively small com-

panies have been added to

A No.

years ago.

A dozen smaller gold infines were deleted, yet the weighting of the Basic Industries economic sector has gone up to 62 per cent in the new index from 60 per cent in the old.

he panel's next task will be to review the classification system below economic sector level. The present system is included in the new World Indices rule book, yet there is clear demand among institutional investors for a new structure which can be applied worldwide. Domicile is another problem.

Transnational hybrids such as Eurotunnel can be "split" in proportion to the listing of their shares between France and the UK. But what to make kong Bank? And what of cases such as the Dutch or Scanding tently traded most heavily in markets outside their countries of origin?

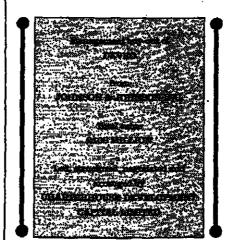
Comment from users of the indices is welcome. Details of the constituent changes, which will come into effect with the calculation of the World Indices on Monday June 3, 1991, were published in yesterday's Financial Times. The new FT-AWI rule book is

available from the Financia Times, One Southwork Bridge, London SE1 9HL, price £50. Adrian Dicks is Manager, FT Statistics, and the FT representative on the World Index

Grand Contract

Who cut the mustard in the





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Milan eases on renewed fears over Fiat

FIAT continued to weigh down Italy yesterday, while Spain moved higher in quiet trading, but most of the excitement was restricted to the emerging mar-kets. Most bourses were closed for Whit Monday, writes Our Markets Staff.
MILAN eased in choppy trad-

ing. There were renewed fears that Fiat would cut its 1990 dividend, which is due to be published today. The Comit index fell 1.57 to 573.35. Trading in Fiat began on a bullish note, with the stock gaining L40 to be set officially

at L5,600. But the share then

fell to L5.450 after hours. Mont-

edison also featured before the

release of its 1990 results and dividend. The shares closed L5

FT-SE Eurotrack 100 - May 20 1119.41 1120.45 1120.13 1119.49 1118.80 1119.24 1118.85 1120.04

lower at L1,425 and eased later to L1,403. Generali rose L200 to L35,100 but gave up its gains after hours. The insurer has still not

Day's High N/A Day's Low N/A May 17 1118.61 May 15 1109.43 May 16 1112.66 May 14 1116.47 Base value 1000 2867

Hourly changes

disclosed the reason behind its rights issue, and there was speculation that the move was aimed solely at strengthening Mediobanca's position as a

core shareholder. MADRID recouped most of Friday's loss of 2.75 points. The general index rose 2.39 to 286.07 in light turnover of Pta12bn, down from Pta35bn. BBV added Pta75 to Pta3,415 on volume of 391,975 shares. The bank was reported to have agreed to sell Banco de Extre-

May 13 1125.32

madura to Portuguese savings bank Caixa Geral de Depositos for about Pta10bn. Construction stocks firmed, with Cubiertas up Pta730 or 4.1 per cent at Ptal8.650. ISTANBUL gained 5.1 per cent after the central bank said that it would introduce price

limits at tomorrow's six-month Treasury bill auction, to keep maximum rates to 66 per cent compared with 74 per cent at the previous auction.
The 75-share index rose

177.73 to 3,652.47 as turnover grew to TL215bn from TL92bn. ATHENS fell sharply, with the financial sector recording the biggest losses. The general index shed 37.34 or 3.6 per cent to 990,59.

FT-ACTUARIES WORLD INDICES

Jointly compiled by The Financial Times Limited, Goldman, Sachs & Co., and County NatWest/Wood Mackenzie in conjunction with the Institute of Actuaries and the Faculty of Actuaries

NATIONAL AND REGIONAL MARKETS	FREDAY MAY 17 1991								THURSDAY MAY 16 1991					DOLLAR INDEX		
Figures in parentheses show number of lines of stock	US Dollar Index	Day's Change %	Pound Sestling Index	Yen Index	DM Index	Local Currency Index	Local % chg on day	Gross Div. Yleid	US Dollar Index	Pound Sterling Index	Yen Index	DM Index	Local Currency Index	1991 High	1991 Low	Year ago (approx)
Australia (72)	145.21	-0.9	125,42	127,08	131.06	123.38	-0.7	5.39	146.46	124.44	127.35	129,22	124.25	147.30	112.74	131.82
Austria (19)	200.66	- 1.5	173.32	175.62	181.11	177.98	-0.6	1.48	203.76	173.12	177.17	179.78	178.98	222.37	167.00	
Belgium (60)	138.47	-0.5	119.60	121.18	124.97	119.86	+0.2	4.94	139.23	118.29	121.05	122.84	119.66	151.20	121.73	
Canada (117)	136,79	-0.2	118.15	119.71	123.45	113.96	-0.1	3.51	137,11	116.49	119.21	120.96	114.08	141,10	126.49	
Denmark (31)	237.44	- 1.8	205.08	207.80	214.30	213.62	+0.3	1.57 2.55	241.84	205,47 97,26	210.28 99.54	213.37 101.00	212.98 96.07	270,58 125,15	217.74	
Finland (21)	113.42	- 0.9	97.96	99.26	102.36	95.18			114,47 138,71	117.85	120.60	122.37	125.28	152.26	90.61	141.54
France (111)	136.18	-18	117.63	119.18	122.90	125.40	+0.1	3.40			98.20		97.60		121.85 102.48	167.64
Germany (88)	108.65	-1.8	93.84	95.10	98.06	98.06	+0.5 +0.6	2 <u>.27</u> 4.27	110.63 159.15	93.99 135.22	138.38	97.60 140.42	97.00 159.12	125,35		133.60
Hong Kong (47)	160.14 152.94	+0.6 -2.1	138.32 132.10	140.15 133.85	144.54 138.04	160.11 139.40	+0.0 +0.0	4.03	156.20	132.71	135.82	137.81	139.39	160.14 182.46	119.62 132.88	121.42 183.85
Ireland (17)	75.98	- 1.7	65.62	66.49	68.57	72.94	+0.2	3.25	77.26	65.64	67.17	68.16	72.79	88.23	72.05	106.16
Italy (91)	137.36	-0.4	118.64	120.21	123.99	120.21	+0.3	0.71	137.91	117.17	119.91	121.69	119.91	146.97	118.35	151.12
Japan (452)	228.71	+0.4	197.54	200.15	206.41	242.82	+0.6	3.12	227.82	193.56	198.07	200.99	241.37	247.78	192.83	225.22
Malaysia (33)		-0.4	838.25	847.33	873.83	3164.59	-1.0	0.40	976.89	829.82	849.21		3195.04	996.27	534.45	
Mexico (12)	968.19 134.96	-9.5 -3.5	116.57	118.11	121.81	120.49	- 1.4	4.32	139.92	118.88	121.66	123.45	122.20	145.73	125.70	141.60
Netherland (40)	52.60	+0.9	45.43	46.03	47.47	47.19	+0.9	7.45	52.14	44.30	45.34	46.00	46.78	54,64	41.18	63.90
New Zealand (14) Norway (30)	200.81	-23	173.45	175.75	181.25	183.98	+0.0	1.64	205.53	174.63	178.71	181,34	183.98	223.24	182.24	242.80
Singapore (25)	199.63	-0.3	172,43	174.71	180.17	162.88	+0.1	2.08	200.15	170.05	174.03	176.59	162.71	208.25	151.63	203.16
South Africa (60)	211.43	-0.6	182.62	185.03	190.82	151.04	-0.1	3.74	212.78	180.78	185.00	187.72	151.25	212.78	173.00	190.71
Spain (41)	159.52	-29	137.78	139.61	143.97	129.43	-1.0	4.37	164.26	139,55	142.82	144,92	130.78	171.12	131.51	163,30
Sweden (27)	177.31	-0.8	153.15	155.18	160.04	162.22	+0.9	270	178.45	151.62	155.16	157.45	160.75	204.12	146.60	202.67
Switzerland (66)	92.05	-1.7	79.51	80.57	83.09	83.72	+0.1	2.33	93.62	79.54	81.40	82.60	83.60	100.67	82.17	101.35
United Kingdom (294)	169.12	-23	148.07	147.89	152.62	148.07	-0.7	4.92	173.16	147.12	150.54	152.76	147.12	187.44	158.27	154.94
USA (523)	150.78	+0.1	130.23	131.96	136.09	150,78	+0.1	3.25	150.68	128.02	131.02	132.95	150.68	158.24	125.95	143.28
																
Europe (936)	136.94	-21	118.29	119.84	123.50	120.94	-0.3	3.90	139.90	118,86	121.54	123.43	121.32	151.52	125.50	146.13
Vordic (109)	176,91	-1.4	152.80	154,83	159.67	154,38	+0.5	2.09	179.33	152.37	155.93	158.22	153.66	200,81	155.55	200.14
Pacific Basin (643)	138.06	-0.4	119.24	120.83	124.61	121.23	+0.2	1.05	138.58	117.74	120.50	122.27	120.95	145,92	117.86	149.35
	137.93	-1.1	119.14	120.71	124.48	121.98	+ 0.0	2.22	139.47	118.49	121.25	123.04	121.97	147.66	121,29	148.43
	149.83	+0.0	129.41	131.14	135.25	148.30	+ 0.1	3.26	149.76	127,24	130.23	132.15	148.22	157.04	125.91	142.70
	117.34	-20	101.35	102.71	105.92	106.20	+0.0	3.13	119.67	101.68	104.07	105.61	106.22	129,80	106.85	138.91
Pacific Ex. Japan (191)	145.14	-0.2	125.38	127.04	131.01	129.06	−0.1	4.72	145.39	123,53	126.43	128.29	129.13	145.39	111.40	127.50
Norld Ex. US (1768)	139.11	-1,1	120.15	121.75	125.55	122.69	+0.0	2.28	140.60	119.46	122,26	124.05	122.70	148.16	122.32	148.63
World Ex. UK (1997)	139,36	-0.5	120,37	121.97	125.79	129,94	÷0.1	2.35	139,99	118.94	121.73	123.53	129.80	145.77	120.06	144.70
	141.57	-0,7	122.28	123,91	127.78	131,39	+0.0	2.62	142.51	121.08	123,92	125.74	131.36	148,66	122.92	145.32
World Ex. Japan (1839)	145.80	8.0 -	125.93	127,61	131,61	137.51	-0.1	3.56	146.96	124.86	127,79	129.68	137.64	152.83	126.69	144.17
The World Index (2291)	141.99	-0.7	122.64	124.27	128,16	131.53	+0.0	2.63	142.93	121.44	124.28	128.12	1\$1.51	149.01	123.28	145.59
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